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1986 REPORT OF FORAGE CROPS NURSERIES

EASTERN FORAGE IMPROVEMENT CONFERENCE

Conducted Cooperatively by the Various
State Agricultural Experiment Stations
and the
Agricultural Research Service
United States Department of Agriculture
in the Eastern United States

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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service
North Atlantic Area
U.S. Regional Pasture Research Laboratory
University Park, PA 16802

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Compiled by

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INTRODUCTION

This is the ninth Forage Crops Nurseries Report of the Eastern Forage Improvement Conference. It is a continuation of the Eastern Alfalfa Nurseries Report. Two important changes were made with the first Forage Crops Nurseries Report: (1) The report was expanded to include data on cool season forage species in addition to alfalfa, and (2) the report no longer contains data from the Eastern Provinces of Canada. The report consists primarily of performance data on forage varieties and breeding materials.

This progress report contains findings that may or may not be verified in subsequent experiments. Therefore, data reported and statements contained herein do not constitute publication. FOR THIS REASON, CITATION OF ANY PART OF THE REPORT SHOULD NOT BE MADE WITHOUT PRIOR PERMISSION FROM THE AGENCY(S) CONCERNED.

Table 1. 1982 USDA VERT-WILT TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture)

entry	Oct-1 6/3/86	Oct-2 7/24/86	Oct-3 9/2/86	1986 Total	1985 Total	1984 Total	1985 Total	83-86 Average
SARAHAD-89	1.82 (12)	1.35 (12)	1.13 (12)	4.30 (12)	6.28 (4)	6.34 (7)	5.42 (12)	5.59 (12)
ARC	2.27 (9)	1.56 (11)	1.24 (10)	5.07 (11)	5.71 (12)	5.79 (12)	5.91 (11)	5.62 (11)
VERTIS	2.27 (10)	1.62 (10)	1.19 (11)	5.08 (10)	5.98 (6)	6.57 (4)	6.35 (9)	6.00 (9)
VERNEMA	2.60 (2)	1.85 (4)	1.45 (7)	5.89 (6)	5.78 (11)	6.41 (6)	6.43 (7)	6.13 (7)
TRUMPETOR	2.39 (8)	1.72 (8)	1.49 (6)	5.60 (8)	6.48 (2)	6.31 (8)	6.96 (3)	6.34 (4)
WL-316	2.45 (7)	1.80 (7)	1.43 (8)	5.67 (7)	5.88 (8)	6.44 (5)	6.97 (2)	6.24 (5)
ZZ-AGWAY E1	2.67 (1)	1.98 (1)	1.59 (4)	6.23 (1)	6.24 (5)	6.68 (3)	6.86 (4)	6.51 (2)
ZZ-CW-B015	2.56 (4)	1.84 (5)	1.64 (1)	6.04 (3)	6.37 (3)	6.73 (1)	7.40 (1)	6.64 (1)
ZZ-CW-141	2.56 (3)	1.80 (6)	1.64 (2)	6.00 (4)	6.55 (1)	6.71 (2)	6.71 (5)	6.50 (3)
APOLLO II	2.25 (11)	1.70 (9)	1.39 (9)	5.35 (9)	5.84 (10)	6.08 (11)	6.15 (10)	5.86 (10)
ZZ-NAPB-108	2.53 (5)	1.92 (2)	1.63 (3)	6.07 (2)	5.95 (9)	6.27 (9)	6.65 (6)	6.22 (6)
ZZ-NAPB-110	2.45 (6)	1.91 (3)	1.54 (5)	5.90 (5)	5.94 (7)	6.09 (10)	6.36 (8)	6.08 (8)
MEAN	2.40	1.76	1.45	5.60	6.07	6.37	6.51	6.14
CV(%)	12.45	11.25	8.22	9.74	9.96	4.30	9.71	4.76
LSD(p=0.05)	.38	.25	.15	.70	-1.00	.35	.81	.37

Negative LSD value implies not significant

Table 1. 1982 USDA VERT-WILT TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture)

SOURCE	d.f.	Cut-1 6/3/86	Cut-2 7/14/86	Cut-3 9/2/86	1986 Total	1983 Total	1984 Total	1985 Total	83-86 Average
TOTAL	59	.1424	.0789	.0556	.6180	.4663	.1397	.7011	.2200
REPS	4	.4011	.2962	.2304	1.4969	1.6779	.1009	2.0164	.7483
ENTRIES	11	.2508	.1593	.1578	1.5790	.4258	.4120	1.4275	.5664
ERROR	44	.0893	.0390	.0141	.2978	.3663	.0751	.4000	.0854

Table 2. 1982 USDA VERT-WILT TRIAL - ROCK SPRINGS
Plant Heights (cm) and Stand Score (1 to 9, 9 = best).

entry	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
SARANAC-AR	26.4 (12)	29.5 (11)	14.2 (11)	2.8 (12)
ARC	26.9 (11)	26.9 (12)	13.2 (12)	4.6 (10)
VERTIS	30.5 (6)	33.5 (10)	15.7 (7)	3.2 (11)
VERNEMA	32.5 (2)	37.6 (1)	16.3 (5)	7.0 (7)
TRUMPETOR	28.4 (10)	34.5 (8)	14.7 (10)	5.4 (9)
WL-316	31.5 (5)	36.1 (4)	17.3 (3)	7.2 (6)
ZZ-AGWAY E1	29.5 (8)	37.1 (2)	16.8 (4)	7.4 (4)
ZZ-CW-B015	32.0 (4)	35.6 (5)	19.3 (1)	7.6 (1)
ZZ-CW-141	32.5 (3)	35.1 (6)	17.8 (2)	7.4 (5)
APDLLO II	29.5 (9)	34.5 (9)	15.2 (8)	6.8 (8)
ZZ-NAPB-108	33.0 (1)	37.1 (3)	16.3 (6)	7.6 (2)
ZZ-NAPB-110	30.5 (7)	35.1 (7)	15.2 (9)	7.6 (3)
MEAN	30.3	34.4	16.0	6.2
CV(%)	10.5	12.3	15.2	18.6
LSD(p=0.05)	4.1	5.4	3.1	1.5

Negative LSD value implies not significant

Table 2. 1982 USDA VERT-WILT TRIAL - ROCK SPRINGS
 Plant Heights (cm) and Stand Score (1 to 9, 9 = best).

source	d.f.	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
TOTAL	59	13.62	23.72	7.28	4.04
REPS	4	22.85	15.75	5.00	1.69
ENTRIES	11	24.04	50.28	13.72	15.69
ERROR	44	10.18	17.81	5.88	1.34

Table 3. 1983 ALFALFA TRIAL - HARPSTER
Yields (T/A @ 12% moisture).

entry	Cut-1 6/4/86	Cut-2 7/14/86	Cut-3 9/2/86	1986 Total	1984 Total	1986 Total	84-86 Average
DK-120	3.20 (13)	2.02 (45)	1.68 (47)	6.89 (40)	6.32 (33)	7.15 (10)	6.79 (24)
DK-130	2.88 (53)	1.89 (53)	1.69 (46)	6.45 (53)	6.10 (50)	6.84 (25)	6.47 (50)
ADVANTAGE	3.14 (24)	2.11 (21)	1.76 (38)	7.01 (27)	6.45 (25)	6.65 (41)	6.71 (33)
EAGLE	2.96 (43)	2.03 (42)	1.93 (15)	6.92 (37)	6.48 (22)	6.69 (37)	6.70 (34)
ZZ-WL-W-1	3.29 (5)	2.26 (3)	2.09 (1)	7.64 (2)	6.83 (3)	6.68 (38)	7.06 (5)
WL-313	2.97 (41)	2.19 (9)	1.96 (9)	7.12 (20)	6.29 (39)	6.67 (40)	6.70 (35)
WL-315	3.08 (31)	2.11 (22)	1.76 (39)	6.95 (35)	6.31 (35)	6.50 (49)	6.59 (44)
WL-316	3.22 (8)	2.05 (36)	2.07 (2)	7.34 (7)	6.64 (10)	7.38 (5)	7.12 (1)
WL-221	2.90 (51)	1.86 (54)	1.67 (48)	6.42 (54)	6.43 (27)	6.72 (34)	6.53 (47)
ZZ-CA744	3.00 (37)	2.12 (18)	1.78 (36)	6.89 (38)	6.44 (26)	6.96 (19)	6.76 (29)
ZZ-B1T21	2.73 (56)	2.02 (43)	1.94 (11)	6.70 (44)	6.01 (54)	6.49 (50)	6.40 (52)
ZZ-WL82-5	3.26 (7)	2.12 (19)	1.93 (13)	7.31 (9)	6.48 (23)	6.20 (56)	6.66 (38)
ARC	2.96 (44)	2.06 (34)	1.61 (52)	6.64 (46)	6.05 (53)	6.97 (18)	6.55 (46)
APICA	3.11 (27)	2.07 (33)	1.77 (37)	6.95 (34)	6.51 (20)	7.22 (7)	6.90 (16)
ZZ-NAPB-26	3.19 (14)	2.12 (20)	1.92 (17)	7.23 (15)	6.53 (18)	7.11 (12)	6.96 (10)
APOLLO II	2.89 (52)	2.07 (29)	1.93 (14)	6.89 (39)	6.19 (43)	6.88 (24)	6.66 (39)
ZZ-NAPB-108	3.20 (12)	2.13 (16)	1.88 (24)	7.21 (16)	6.62 (14)	6.76 (32)	6.86 (17)
ZZ-NAPB-110	3.13 (25)	2.11 (23)	1.89 (20)	7.13 (19)	6.29 (38)	7.14 (11)	6.86 (18)
ZZ-NAPB-20	3.18 (16)	2.20 (8)	1.92 (16)	7.30 (10)	6.69 (8)	6.69 (35)	6.90 (15)
ZZ-NAPB-21	3.14 (22)	2.17 (12)	1.99 (7)	7.30 (11)	6.40 (29)	6.60 (45)	6.77 (26)
ZZ-NAPB-22	3.06 (32)	2.13 (17)	1.88 (22)	7.07 (24)	6.38 (31)	6.67 (39)	6.71 (32)
ZZ-NAPB-23	3.18 (17)	2.20 (7)	1.96 (10)	7.34 (8)	6.30 (36)	6.45 (53)	6.69 (36)
ZZ-NAPB-24	3.29 (4)	2.22 (6)	1.89 (21)	7.40 (5)	6.31 (34)	6.56 (48)	6.75 (30)
ZZ-L5-C50	3.10 (29)	2.06 (35)	1.85 (28)	7.01 (28)	6.15 (46)	7.02 (16)	6.72 (31)
ZZ-IC0-3	3.32 (2)	2.07 (31)	1.80 (33)	7.19 (18)	6.19 (44)	6.95 (20)	6.78 (25)
ZZ-IC0-16	3.30 (3)	2.25 (4)	1.90 (19)	7.44 (3)	7.04 (1)	6.69 (36)	7.06 (4)
P-524	3.15 (20)	2.18 (10)	1.74 (41)	7.07 (25)	6.11 (49)	6.58 (47)	6.59 (45)
P-526	3.21 (10)	2.04 (39)	1.80 (32)	7.05 (26)	6.29 (40)	6.60 (46)	6.65 (40)

Table 3. 1983 ALFALFA TRIAL - HARPSTER
Yields (T/A @ 12% moisture).

entry	Cut-1 6/4/86	Cut-2 7/14/86	Cut-3 9/2/86	1986 Total	1984 Total	1986 Total	84-86 Average
P-531	3.27 (6)	2.13 (15)	1.84 (29)	7.25 (13)	6.63 (11)	6.94 (21)	6.94 (12)
P-532	3.01 (34)	2.10 (26)	1.62 (51)	6.74 (43)	6.79 (4)	6.47 (52)	6.67 (37)
MAGNUM	3.12 (26)	2.07 (30)	1.82 (30)	7.00 (29)	5.88 (55)	6.63 (43)	6.51 (48)
FUTURA	3.06 (33)	2.11 (24)	1.70 (44)	6.86 (41)	6.20 (42)	6.72 (33)	6.60 (43)
ZZ-DS-215	3.14 (21)	2.31 (2)	1.94 (12)	7.39 (6)	6.74 (5)	6.81 (28)	6.98 (9)
ZZ-DS-222	2.78 (55)	1.97 (50)	1.73 (42)	6.48 (52)	6.07 (52)	6.41 (54)	6.32 (55)
ZZ-CW-241	2.98 (40)	2.17 (11)	1.79 (34)	6.94 (36)	6.68 (9)	6.82 (27)	6.82 (21)
ZZ-CW-252	3.21 (11)	2.16 (13)	1.87 (25)	7.24 (14)	6.47 (24)	7.39 (4)	7.03 (6)
ZZ-CW-211	3.01 (35)	1.83 (55)	1.98 (8)	6.82 (42)	6.74 (6)	7.45 (3)	7.00 (8)
ZZ-CW-238	3.19 (15)	2.04 (38)	1.88 (23)	7.11 (21)	6.09 (51)	7.08 (13)	6.76 (27)
ZZ-CW-239	3.10 (28)	2.08 (28)	2.02 (5)	7.20 (17)	6.54 (17)	7.00 (17)	6.91 (14)
ZZ-CW-235	3.17 (18)	2.07 (32)	2.03 (4)	7.27 (12)	6.62 (13)	7.17 (9)	7.02 (7)
ZZ-CW-248	3.22 (9)	2.38 (1)	2.06 (3)	7.65 (1)	6.51 (19)	7.07 (14)	7.08 (3)
ZZ-CW-138	3.14 (23)	2.03 (41)	1.79 (35)	6.97 (32)	6.30 (37)	7.26 (6)	6.85 (20)
ZZ-CW-139	2.99 (38)	2.10 (25)	2.00 (6)	7.09 (22)	6.69 (7)	7.57 (1)	7.12 (2)
TRUMPETOR	3.17 (19)	2.00 (48)	1.92 (18)	7.08 (23)	6.39 (30)	6.91 (22)	6.80 (23)
DRUMMER	2.78 (54)	1.98 (49)	1.49 (55)	6.24 (55)	6.16 (45)	6.80 (30)	6.40 (53)
ONEIDA	2.91 (48)	1.90 (52)	1.70 (43)	6.52 (51)	6.26 (41)	6.47 (51)	6.42 (51)
SARANAC-AR	2.95 (45)	1.93 (51)	1.62 (50)	6.52 (50)	6.41 (28)	7.47 (2)	6.81 (22)
PRESERVE	2.92 (47)	1.80 (56)	1.31 (56)	6.03 (56)	6.12 (48)	6.64 (42)	6.27 (56)
ZZ-SAR-RES	3.10 (30)	2.05 (37)	1.85 (27)	7.00 (30)	6.59 (15)	7.18 (8)	6.92 (13)
HONEOYE	3.01 (36)	2.09 (27)	1.86 (26)	6.96 (33)	6.13 (47)	6.83 (26)	6.65 (41)
IROQUOIS	2.98 (39)	2.00 (47)	1.55 (54)	6.53 (49)	6.84 (2)	6.90 (23)	6.76 (28)
ZZ-MI 80-16	2.90 (50)	2.04 (40)	1.69 (45)	6.62 (47)	6.37 (32)	6.40 (55)	6.47 (49)
ZZ-FILRS	2.91 (49)	2.02 (44)	1.60 (53)	6.53 (48)	6.56 (16)	6.81 (29)	6.63 (42)
ZZ-FILRA	2.97 (42)	2.01 (46)	1.66 (49)	6.64 (45)	5.88 (56)	6.62 (44)	6.38 (54)
ZZ-FILRI	3.52 (1)	2.15 (14)	1.75 (40)	7.42 (4)	6.63 (12)	6.77 (31)	6.95 (11)
ZZ-FILRH	2.95 (46)	2.23 (5)	1.81 (31)	6.99 (31)	6.49 (21)	7.06 (15)	6.85 (19)

Negative LSD value implies not significant

Table 3. 1983 ALFALFA TRIAL - HARPSTER
Yields (T/A @ 12% moisture).

source	d.f.	Cut-1 6/4/86	Cut-2 7/14/86	Cut-3 9/2/86	1986 Total	1984 Total	1986 Total	84-86 Average
TOTAL	220	.0634	.0470	.0489	.3147	.2001	.3028	.1501
REPS	31	.1389	.1198	.1363	.9158	.3897	.7764	.4312
RIVAR-S	31	.1036	.0864	.0717	.5624	.3032	.5301	.2896
VARIETIES	55	.0910	.0546	.1105	.5346	.2562	.4129	.2185
VIR	55	.0711	.0358	.0741	.3354	.2075	.2741	.1387
RESIDUAL	134	.0428	.0347	.0183	.1672	.1532	.2050	.0897

Table 4. 1983 ALFALFA TRIAL - HARPSTER
Plant heights (cm.) and Stand Score (1-9, 9=best).

entry	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
DK-120	30.4 (43)	36.4 (29)	16.2 (40)	7.0 (51)
DK-130	30.6 (39)	33.1 (53)	15.4 (46)	7.4 (41)
ADVANTAGE	30.8 (37)	33.5 (52)	19.8 (4)	7.4 (42)
EAGLE	29.9 (46)	38.5 (10)	19.4 (6)	7.7 (32)
ZZ-WL-W-1	31.0 (36)	39.8 (1)	19.3 (8)	7.8 (23)
WL-313	32.9 (14)	36.1 (31)	16.9 (32)	7.9 (17)
WL-315	29.8 (47)	34.2 (46)	15.7 (43)	7.9 (19)
WL-316	34.3 (3)	39.4 (5)	18.7 (12)	8.4 (4)
WL-221	27.4 (55)	33.6 (50)	15.8 (42)	6.9 (52)
ZZ-CA744	31.4 (28)	35.2 (36)	15.1 (49)	7.6 (36)
ZZ-B1T21	31.1 (33)	37.7 (16)	18.0 (19)	8.4 (3)
ZZ-WLB2-5	29.6 (48)	35.1 (39)	16.6 (35)	8.3 (6)
ARC	28.4 (54)	34.1 (47)	14.2 (56)	7.1 (48)
APICA	33.5 (9)	37.8 (15)	16.8 (33)	7.4 (43)
ZZ-NAPB-26	29.4 (49)	34.8 (42)	14.8 (52)	7.6 (34)
APOLLO II	30.6 (40)	37.3 (20)	17.9 (21)	7.7 (33)
ZZ-NAPB-108	33.5 (11)	35.1 (40)	16.4 (39)	7.3 (45)
ZZ-NAPB-110	31.3 (29)	35.7 (33)	14.7 (53)	7.9 (18)
ZZ-NAPB-20	30.5 (41)	34.7 (43)	14.7 (54)	8.0 (15)
ZZ-NAPB-21	29.2 (51)	35.2 (38)	16.0 (41)	7.6 (37)
ZZ-NAPB-22	33.2 (13)	36.4 (28)	14.8 (51)	8.1 (12)
ZZ-NAPB-23	33.8 (6)	36.5 (27)	17.0 (31)	7.8 (24)
ZZ-NAPB-24	32.4 (18)	38.4 (11)	18.8 (10)	7.9 (21)
ZZ-L5-C50	29.4 (50)	39.6 (2)	21.1 (2)	7.8 (27)
ZZ-ICO-3	33.8 (5)	36.1 (32)	18.8 (9)	7.8 (22)
ZZ-ICO-16	31.6 (26)	36.7 (26)	18.1 (17)	8.2 (8)
P-524	30.4 (44)	31.8 (55)	18.2 (15)	7.5 (39)
P-526	33.7 (7)	36.9 (23)	16.4 (38)	7.8 (28)

Table 4. 1983 ALFALFA TRIAL - HARPSTER
Plant heights (cm.) and Stand Score (1-9, 9=best).

	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
P-531	35.6 (1)	38.9 (9)	17.6 (27)	7.8 (25)
P-532	32.3 (21)	38.9 (8)	18.7 (11)	7.6 (35)
MAGNUM	35.0 (2)	37.6 (17)	15.3 (47)	7.3 (47)
FUTURA	32.0 (23)	35.4 (35)	17.2 (29)	7.6 (29)
ZZ-DS-215	32.8 (15)	37.8 (14)	21.8 (1)	8.4 (2)
ZZ-DS-222	31.2 (31)	38.1 (12)	17.8 (23)	8.1 (10)
ZZ-CW-241	32.3 (20)	37.4 (19)	17.6 (26)	7.8 (30)
ZZ-CW-252	32.1 (22)	39.6 (3)	16.5 (37)	7.8 (26)
ZZ-CW-211	30.7 (38)	39.0 (7)	20.9 (3)	8.1 (11)
ZZ-CW-238	30.3 (45)	35.1 (41)	18.1 (16)	8.0 (14)
ZZ-CW-239	33.6 (8)	36.8 (25)	18.1 (18)	8.2 (7)
ZZ-CW-235	31.5 (27)	38.0 (13)	18.4 (14)	8.1 (13)
ZZ-CW-248	33.2 (12)	37.5 (18)	17.1 (30)	8.5 (1)
ZZ-CW-138	32.0 (24)	36.8 (24)	17.8 (22)	7.7 (31)
ZZ-CW-139	32.3 (19)	37.1 (22)	18.4 (13)	8.1 (9)
TRUMPETOR	31.7 (25)	37.2 (21)	16.5 (36)	7.9 (20)
DRUMMER	29.2 (52)	32.6 (54)	14.2 (55)	6.1 (56)
ONEIDA	32.6 (16)	35.6 (34)	15.4 (45)	7.0 (50)
SARANAC-AR	31.1 (34)	33.6 (51)	17.6 (25)	7.1 (49)
PRESERVE	28.9 (53)	31.6 (56)	15.0 (50)	6.7 (53)
ZZ-SAR-RES	34.1 (4)	39.4 (4)	19.6 (5)	8.3 (5)
HONEOYE	31.2 (32)	36.2 (30)	15.6 (44)	7.6 (38)
IROQUOIS	30.5 (42)	34.3 (45)	17.4 (28)	6.6 (54)
ZZ-MI 80-16	31.3 (30)	33.6 (49)	15.3 (48)	7.3 (46)
ZZ-FILRS	27.0 (56)	34.0 (48)	17.8 (24)	6.5 (55)
ZZ-FILRA	32.5 (17)	35.2 (37)	16.8 (34)	7.3 (44)
ZZ-FILRI	31.0 (35)	34.5 (44)	17.9 (20)	7.9 (16)
ZZ-FILRH	33.5 (10)	39.2 (6)	19.3 (7)	7.5 (40)

Negative LSD value implies not significant

Table 4. 1983 ALFALFA TRIAL - HARPSTER

Plant heights (cm.) and Stand Score (1-9, 9=best).

SOURCE	d.f.	Height	Height	Height	Stand
		5/8/86	6/23/86	9/24/86	9/24/86
TOTAL	220	8.29	14.56	8.10	.59
REPS	31	10.96	44.40	12.58	1.50
RIVAR-S	31	8.41	36.91	7.70	.82
VARIETIES	55	12.41	18.50	13.15	1.17
VIR	55	10.97	14.27	10.40	.77
RESIDUAL	134	6.57	7.77	6.12	.30

Table 5. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture).

entry	Cut-1 6/5/86	Cut-2 7/18/86	Cut-3 9/3/86	1986 Total	1985 Total	85-86 Average
P-526	3.28 (46)	1.85 (46)	1.54 (59)	6.66 (55)	6.46 (58)	6.58 (58)
P-531	3.41 (29)	1.85 (47)	1.78 (38)	7.03 (44)	6.95 (22)	7.01 (38)
P-532	3.69 (5)	1.89 (44)	1.69 (47)	7.24 (30)	6.85 (32)	7.05 (32)
DK-120	3.32 (41)	1.80 (55)	1.60 (56)	6.70 (53)	6.88 (28)	6.81 (49)
DK-135	3.49 (22)	1.91 (40)	1.97 (25)	7.41 (25)	6.70 (46)	7.06 (29)
ADVANTAGE	3.19 (55)	1.87 (45)	1.70 (46)	6.75 (50)	7.13 (8)	6.95 (41)
ZZ-RS-242	3.56 (17)	2.21 (5)	2.18 (11)	7.96 (6)	7.37 (2)	7.67 (1)
ZZ-CW-341	3.61 (11)	2.06 (21)	2.24 (6)	7.97 (5)	7.25 (5)	7.62 (2)
ZZ-CW-315	3.68 (6)	2.14 (11)	2.24 (7)	8.09 (2)	7.08 (11)	7.58 (5)
ZZ-CW-327	3.52 (19)	2.16 (9)	2.29 (2)	7.99 (4)	7.20 (6)	7.59 (4)
ZZ-CW-339	3.38 (33)	2.13 (13)	1.96 (27)	7.48 (20)	6.90 (27)	7.18 (21)
EXCALIBUR	3.59 (14)	1.92 (37)	2.13 (14)	7.58 (16)	7.36 (3)	7.47 (7)
ENDURE	3.40 (32)	2.14 (12)	2.05 (18)	7.59 (15)	6.67 (50)	7.13 (24)
CHALLENGER	3.59 (13)	1.80 (54)	1.76 (42)	7.12 (39)	7.07 (12)	7.09 (27)
DECATHELON	3.36 (35)	1.89 (42)	1.85 (35)	7.12 (38)	6.58 (56)	6.84 (48)
EAGLE	3.40 (30)	1.82 (52)	1.89 (30)	7.10 (41)	6.97 (20)	7.04 (36)
ZZ-LL3018	3.63 (10)	2.25 (2)	2.04 (19)	7.88 (8)	6.92 (26)	7.41 (10)
ZZ-LL3110A	3.64 (9)	1.99 (25)	1.94 (28)	7.58 (17)	6.51 (57)	7.05 (31)
EPIC	3.31 (42)	1.93 (35)	1.65 (50)	6.86 (48)	6.44 (59)	6.65 (56)
BLAZER	3.53 (18)	2.08 (18)	1.77 (40)	7.39 (27)	6.92 (25)	7.17 (22)
WL-313	3.47 (26)	1.94 (32)	2.02 (22)	7.44 (24)	6.35 (60)	6.90 (45)
WL-315	3.36 (38)	2.10 (17)	1.88 (31)	7.32 (29)	6.22 (62)	6.78 (50)
WL-316	3.42 (28)	2.11 (16)	2.03 (21)	7.53 (18)	6.84 (33)	7.20 (18)
ZZ-CA7931-32	2.99 (62)	2.03 (22)	2.13 (13)	7.16 (35)	6.63 (53)	6.90 (44)
ZZ-WB2-5	3.67 (7)	2.08 (19)	2.00 (23)	7.74 (12)	7.12 (10)	7.44 (9)
ZZ-WB3-3	3.05 (60)	2.13 (15)	2.26 (5)	7.45 (23)	6.99 (17)	7.23 (17)
ZZ-WB3-32	3.36 (36)	2.15 (10)	2.23 (8)	7.78 (11)	6.78 (39)	7.28 (13)
ZZ-NY-10	3.28 (45)	1.83 (49)	1.57 (57)	6.73 (51)	7.01 (15)	6.88 (46)

Table 5. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture).

entry	Cut-1 6/5/86	Cut-2 7/18/86	Cut-3 9/3/86	1986 Total	1985 Total	85-86 Average
ZZ-NY-11	3.26 (49)	1.48 (62)	1.44 (60)	6.20 (62)	6.61 (54)	6.41 (62)
ZZ-NY-9	3.47 (25)	2.26 (1)	2.36 (1)	8.14 (1)	7.06 (13)	7.60 (3)
ZZ-ICO-25	3.61 (12)	1.91 (38)	1.65 (51)	7.20 (33)	6.81 (36)	7.02 (37)
ZZ-ICB-31	3.80 (2)	1.84 (48)	1.96 (26)	7.68 (14)	7.37 (1)	7.53 (6)
ZZ-ICO-16	3.48 (23)	1.90 (41)	1.81 (37)	7.20 (34)	7.12 (9)	7.15 (23)
WETSEL 217	3.29 (43)	1.80 (53)	1.64 (53)	6.72 (52)	6.72 (43)	6.72 (52)
WETSEL 424	3.27 (47)	1.79 (56)	1.66 (49)	6.67 (54)	6.69 (48)	6.68 (55)
CIMMARON	3.24 (50)	2.08 (20)	1.77 (41)	7.10 (40)	7.00 (16)	7.04 (34)
SHENANDOAH	3.46 (27)	1.93 (34)	1.82 (36)	7.21 (31)	7.30 (4)	7.25 (16)
SARANAC-AR	3.14 (56)	1.83 (50)	1.65 (52)	6.63 (57)	6.86 (30)	6.74 (51)
ARC	3.21 (52)	1.72 (59)	1.57 (58)	6.48 (58)	6.69 (47)	6.58 (57)
MAGNUM	3.27 (48)	1.75 (58)	1.64 (54)	6.66 (56)	6.71 (45)	6.69 (54)
ZZ-DS-305	3.24 (51)	1.95 (31)	1.86 (34)	7.02 (45)	6.95 (23)	7.00 (40)
ZZ-DS-409	3.35 (39)	1.98 (27)	1.87 (32)	7.20 (32)	6.86 (31)	7.04 (35)
ZZ-DS-410	3.40 (31)	1.99 (26)	2.08 (17)	7.49 (19)	6.88 (29)	7.20 (19)
FUTURA	3.09 (59)	1.69 (60)	1.67 (48)	6.43 (60)	6.65 (51)	6.56 (60)
ZZ-NK-83589	3.51 (20)	1.91 (39)	1.98 (24)	7.38 (28)	6.99 (18)	7.19 (20)
ZZ-NK-82504	2.74 (63)	2.17 (8)	2.18 (10)	7.02 (46)	7.05 (14)	7.04 (33)
PRESERVE	3.73 (4)	1.45 (63)	1.22 (64)	6.43 (59)	6.95 (21)	6.70 (53)
POLAR II	3.34 (40)	1.63 (61)	1.26 (61)	6.21 (61)	6.83 (34)	6.53 (61)
ZZ-NK-83599	3.09 (58)	1.98 (28)	2.03 (20)	7.14 (36)	6.59 (55)	6.86 (47)
ZZ-NK-82503	3.50 (21)	1.94 (33)	1.94 (29)	7.40 (26)	6.72 (42)	7.06 (30)
ZZ-NAPB-25	3.57 (16)	2.22 (4)	2.28 (3)	8.09 (3)	6.81 (37)	7.45 (8)
ZZ-NAPB-26	3.74 (3)	1.98 (30)	2.09 (16)	7.80 (10)	6.93 (24)	7.37 (11)
ZZ-NAPB-23	3.20 (54)	2.13 (14)	2.18 (9)	7.46 (22)	6.71 (44)	7.09 (26)
ZZ-NAPB-22	3.48 (24)	2.25 (3)	2.14 (12)	7.83 (9)	6.68 (49)	7.26 (14)
ZZ-NAPB-20	3.29 (44)	2.20 (7)	2.27 (4)	7.73 (13)	6.78 (40)	7.26 (15)
APOLLO II	3.12 (57)	1.89 (43)	1.86 (33)	6.85 (49)	6.25 (61)	6.56 (59)

Table 5. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture).

entry	Cut-1 6/5/86	Cut-2 7/18/86	Cut-3 9/3/86	1986 Total	1985 Total	85-86 Average
ZZ-83B29	3.38 (34)	1.98 (29)	1.70 (45)	7.09 (42)	7.15 (7)	7.13 (25)
ZZ-83B30	3.80 (1)	1.92 (36)	1.72 (44)	7.46 (21)	6.64 (52)	7.07 (28)
ZZ-83B32	3.59 (15)	2.21 (6)	2.09 (15)	7.91 (7)	6.82 (35)	7.37 (12)
ZZ-83B35	3.36 (37)	2.03 (23)	1.74 (43)	7.12 (37)	6.76 (41)	6.95 (42)
ZZ-83B37	3.20 (53)	2.02 (24)	1.78 (39)	7.01 (47)	6.98 (19)	7.00 (39)
ZZ-83B39	3.64 (8)	1.82 (51)	1.61 (55)	7.05 (43)	6.80 (38)	6.93 (43)
ZZ-B-31	3.04 (61)	1.79 (57)	1.24 (63)	6.08 (63)	5.64 (63)	5.87 (63)
ZZ-B-32	2.28 (64)	1.29 (64)	1.26 (62)	4.80 (64)	4.10 (64)	4.46 (64)
MEAN	3.38	1.95	1.87	7.20	6.79	7.00
CV(%)	9.64	11.46	8.44	7.06	6.26	5.11
LSD(p=0.05)	.45	.31	.22	.71	.59	.50
Rel.Eff.(%)	100.80	101.30	172.80	115.50	120.90	113.00

Negative LSD value implies not significant

Table 5. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Yields (T/A @ 12% moisture).

source	d.f.	Cut-1 6/5/86	Cut-2 7/18/86	Cut-3 9/3/86	1986 Total	1985 Total	85-86 Average
TOTAL	255	.1495	.0781	.1082	.5723	.4437	.3548
REPS	3	.7927	.2966	.0991	2.0651	6.6752	3.8557
TREATMENTS	63	.2464	.1504	.3045	1.3225	.8232	.8184
BLOCKS	28	.1546	.0652	.1630	.6578	.5314	.3017
ERROR	161	.0987	.0480	.0220	.2360	.1638	.1173

Table 6. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Height (cm) and Disease and Stand Scores (1-9, 9 = most).

entry	Height 5/8/86	Height 6/23/86	Dis.Score 8/28/86	Height 9/24/86	Stand 9/24/86
P-526	35.0 (53)	28.0 (50)	6.2 (6)	17.4 (54)	7.2 (52)
P-531	39.4 (5)	29.2 (32)	5.1 (15)	18.2 (50)	8.3 (16)
P-532	38.3 (12)	29.1 (35)	5.1 (16)	17.5 (52)	7.5 (47)
DK-120	35.0 (52)	30.5 (15)	6.0 (7)	19.0 (43)	7.0 (58)
DK-135	36.4 (37)	29.8 (22)	1.4 (57)	20.2 (21)	8.1 (27)
ADVANTAGE	35.6 (50)	28.6 (41)	4.5 (21)	19.7 (28)	7.0 (56)
ZZ-RS-242	37.6 (22)	26.8 (56)	2.1 (46)	22.6 (3)	8.6 (4)
ZZ-CW-341	36.9 (29)	28.4 (44)	1.8 (51)	20.3 (18)	8.5 (9)
ZZ-CW-315	36.2 (45)	29.2 (31)	1.2 (61)	19.1 (39)	8.6 (5)
ZZ-CW-327	36.6 (36)	31.2 (7)	1.8 (50)	19.6 (31)	8.3 (15)
ZZ-CW-339	36.3 (39)	29.2 (33)	2.2 (44)	18.5 (49)	8.0 (29)
EXCALIBUR	36.8 (34)	28.7 (40)	1.8 (49)	18.9 (44)	8.2 (24)
ENDURE	36.8 (31)	33.1 (2)	1.5 (55)	18.8 (45)	7.5 (46)
CHALLENGER	36.1 (47)	29.3 (29)	4.0 (25)	19.4 (38)	7.8 (33)
DECATHELON	39.3 (7)	33.3 (1)	3.8 (30)	20.5 (14)	7.6 (42)
EAGLE	36.1 (46)	24.7 (63)	3.2 (35)	21.4 (8)	8.5 (10)
ZZ-LL3018	38.6 (11)	28.6 (42)	2.7 (39)	20.5 (15)	8.5 (12)
ZZ-LL3110A	37.3 (26)	28.8 (38)	2.0 (48)	20.5 (17)	8.5 (8)
EPIC	34.3 (58)	28.4 (45)	5.0 (18)	20.0 (25)	8.2 (20)
BLAZER	34.7 (56)	29.9 (20)	2.2 (45)	16.1 (60)	7.7 (41)
WL-313	38.7 (10)	28.1 (48)	3.3 (32)	22.5 (4)	8.5 (7)
WL-315	38.1 (17)	30.9 (12)	3.0 (37)	19.1 (41)	8.2 (21)
WL-316	38.2 (14)	29.9 (19)	3.0 (36)	19.5 (33)	9.0 (1)
ZZ-CA7931-32	33.7 (62)	27.8 (51)	3.2 (34)	22.5 (5)	8.5 (11)
ZZ-WB2-5	36.9 (30)	28.1 (46)	2.6 (42)	20.7 (11)	8.0 (31)
ZZ-WB3-3	36.7 (35)	27.4 (54)	2.6 (41)	20.5 (16)	8.6 (6)
ZZ-WB3-32	38.1 (15)	30.5 (14)	1.3 (59)	22.2 (6)	9.0 (2)
ZZ-NY-10	37.3 (28)	30.4 (16)	5.9 (8)	19.4 (36)	7.3 (49)

Table 6. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Height (cm) and Disease and Stand Scores (1-9, 9 = most).

entry	Height 5/8/86	Height 6/23/86	Dis.Score 8/28/86	Height 9/24/86	Stand 9/24/86
ZZ-NY-11	39.4 (6)	31.2 (8)	5.5 (11)	15.8 (61)	6.8 (59)
ZZ-NY-9	39.8 (3)	29.3 (28)	1.5 (56)	20.0 (26)	7.8 (32)
ZZ-ICO-25	39.4 (4)	31.8 (3)	4.1 (23)	18.6 (48)	7.8 (35)
ZZ-ICB-31	34.8 (55)	30.0 (18)	2.7 (38)	16.3 (59)	7.8 (34)
ZZ-ICO-16	36.8 (32)	23.3 (64)	3.9 (29)	20.2 (23)	7.7 (38)
WETSEL 217	33.0 (63)	29.7 (25)	5.0 (17)	19.7 (30)	7.7 (39)
WETSEL 424	36.3 (38)	27.8 (52)	5.5 (12)	20.3 (20)	8.0 (30)
CIMMARON	37.8 (21)	26.6 (59)	5.4 (13)	21.2 (10)	7.7 (37)
SHENANDDAH	39.9 (2)	29.1 (34)	4.9 (20)	22.0 (7)	7.3 (50)
SARANAC-AR	34.2 (60)	31.0 (10)	5.9 (10)	17.5 (53)	6.3 (60)
ARC	36.3 (40)	28.7 (39)	4.5 (22)	20.7 (12)	7.0 (57)
MAGNUM	36.2 (44)	25.7 (61)	5.2 (14)	16.7 (57)	7.8 (36)
ZZ-DS-305	39.0 (9)	28.6 (43)	5.9 (9)	23.7 (1)	8.3 (18)
ZZ-DS-409	38.1 (16)	26.9 (55)	3.2 (33)	23.3 (2)	8.1 (26)
ZZ-DS-410	35.8 (48)	29.7 (26)	1.7 (52)	19.7 (29)	8.1 (28)
FUTURA	36.8 (33)	26.7 (58)	5.0 (19)	17.0 (56)	7.7 (40)
ZZ-NK-83589	34.5 (57)	28.1 (49)	2.0 (47)	14.9 (62)	7.0 (55)
ZZ-NK-82504	38.1 (18)	30.4 (17)	1.7 (53)	19.5 (34)	8.3 (17)
PRESERVE	35.7 (49)	31.3 (6)	8.9 (1)	13.8 (63)	4.3 (63)
POLAR II	36.2 (43)	29.1 (36)	8.7 (3)	17.2 (55)	6.3 (61)
ZZ-NK-83599	37.5 (25)	28.8 (37)	2.6 (40)	16.7 (58)	7.2 (51)
ZZ-NK-82503	38.1 (19)	26.1 (60)	2.6 (43)	19.0 (42)	7.6 (43)
ZZ-NAPB-25	37.5 (24)	29.9 (21)	1.2 (60)	19.6 (32)	8.7 (3)
ZZ-NAPB-26	34.2 (59)	29.8 (23)	1.4 (58)	17.9 (51)	8.4 (13)
ZZ-NAPB-23	37.6 (23)	24.9 (62)	1.1 (63)	20.7 (13)	8.2 (23)
ZZ-NAPB-22	36.3 (41)	26.7 (57)	1.2 (62)	19.1 (40)	8.4 (14)
ZZ-NAPB-20	35.1 (51)	27.4 (53)	.9 (64)	19.9 (27)	8.2 (19)
APOLLO II	38.2 (13)	28.1 (47)	4.1 (24)	19.4 (37)	8.2 (25)

Table 6. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Height (cm) and Disease and Stand Scores (1-9, 9 = most).

entry	Height 5/8/86	Height 6/23/86	Dis.Score 8/28/86	Height 9/24/86	Stand 9/24/86
ZZ-83B29	34.2 (61)	31.0 (9)	3.5 (31)	18.6 (47)	7.2 (53)
ZZ-83B30	38.0 (20)	29.7 (24)	4.0 (26)	19.4 (35)	7.5 (44)
ZZ-83B32	36.2 (42)	31.6 (5)	1.7 (54)	20.1 (24)	8.2 (22)
ZZ-83B35	37.3 (27)	31.7 (4)	4.0 (27)	20.3 (19)	7.4 (48)
ZZ-83B37	34.9 (54)	30.9 (11)	3.9 (28)	21.3 (9)	7.5 (45)
ZZ-83B39	39.2 (8)	29.2 (30)	6.2 (5)	18.7 (46)	7.2 (54)
ZZ-B-31	44.6 (1)	29.3 (27)	8.9 (2)	20.2 (22)	6.0 (62)
ZZ-B-32	27.3 (64)	30.9 (13)	8.5 (4)	8.0 (64)	.9 (64)
MEAN	36.8	29.0	3.7	19.2	7.7
CV(%)	7.3	14.8	30.9	13.6	7.8
LSD(p=0.05)	3.8	-1.0	1.6	3.7	.8
Rel.Eff.(%)	100.8	100.3	109.3	104.2	102.3

Negative LSD value implies not significant

Table 6. 1984 USDA ALFALFA TRIAL - ROCK SPRINGS
Height (cm) and Disease and Stand Scores (1-9, 9 = most).

source	d.f.	Height 5/8/86	Height 6/23/86	Dis.Score 8/28/86	Height 9/24/86	Stand 9/24/86
TOTAL	255	10.88	17.93	5.33	12.76	1.59
REPS	3	35.98	45.39	10.83	150.07	.10
TREATMENTS	63	20.25	14.76	16.80	23.04	5.31
BLOCKS	28	8.91	21.12	2.68	11.15	.51
ERROR	161	7.09	18.11	1.20	6.47	.34

Table 7. 1985 USDA Alfalfa Trial - Rock Springs
Yields (T/A @ 12% moisture).

entry	Cut-1	Cut-2	Cut-3	1986
	6/6/86	7/21/86	9/4/86	Total
ZZ-CW-334	3.17 (16)	2.43 (17)	1.96 (36)	7.54 (23)
ZZ-CW-430	3.27 (6)	2.35 (30)	2.01 (22)	7.56 (21)
ZZ-CW-440	3.04 (49)	2.38 (25)	1.86 (62)	7.28 (44)
ZZ-CW-341	3.07 (40)	2.34 (33)	1.96 (37)	7.36 (35)
ZZ-CW-414	3.13 (22)	2.33 (35)	2.10 (5)	7.52 (26)
ZZ-CW-312	3.08 (36)	2.55 (7)	2.08 (7)	7.70 (11)
ZZ-Agway-E12	3.47 (1)	2.83 (1)	2.05 (12)	8.33 (1)
ZZ-H-15-84	2.89 (65)	2.32 (38)	1.86 (63)	7.01 (65)
ZZ-S-34-84	2.74 (72)	2.11 (68)	1.82 (71)	6.66 (72)
ZZ-S-39-84	2.95 (62)	2.16 (64)	1.90 (54)	6.96 (68)
ZZ-H-6-84	3.03 (51)	2.20 (58)	2.06 (11)	7.31 (40)
WL-316	3.07 (39)	2.28 (42)	2.00 (26)	7.37 (33)
WL-320	2.87 (67)	2.07 (70)	1.95 (41)	6.86 (70)
Hi-Phy	3.00 (57)	2.22 (53)	2.01 (23)	7.24 (46)
Anstar	3.35 (3)	2.41 (20)	1.96 (38)	7.73 (7)
ZZ-NK-B2503	3.24 (9)	2.32 (36)	1.79 (72)	7.31 (41)
ZZ-NK-B3630	3.06 (45)	2.25 (48)	1.90 (55)	7.25 (45)
ZZ-NK-B4633	3.20 (11)	2.52 (8)	1.97 (35)	7.73 (6)
ZZ-NK-B3632	3.25 (8)	2.36 (28)	2.03 (20)	7.71 (9)
ZZ-NK-B3631	2.86 (70)	2.14 (66)	2.05 (15)	7.10 (61)
Apollo II	3.10 (29)	2.18 (63)	1.82 (70)	7.13 (58)
ZZ-NAPB-35	3.13 (21)	2.45 (16)	2.22 (1)	7.85 (4)
ZZ-NAPB-32	3.03 (50)	2.32 (37)	1.95 (40)	7.35 (37)
Dart	3.13 (20)	2.40 (22)	2.00 (25)	7.54 (24)
Arrow	3.10 (31)	2.37 (26)	2.00 (27)	7.48 (28)
Shenandoah	3.17 (15)	2.50 (10)	1.89 (60)	7.58 (16)
Cimarron	3.03 (52)	2.45 (15)	2.12 (4)	7.57 (18)
Magnum	3.04 (47)	2.29 (40)	2.04 (16)	7.41 (31)

Table 7. 1985 USDA Alfalfa Trial - Rock Springs
Yields (T/A @ 12% moisture).

entry	Cut-1 6/6/86	Cut-2 7/21/86	Cut-3 9/4/86	1986 Total
Futura	3.12 (24)	2.26 (47)	1.92 (47)	7.30 (42)
ZZ-DS-305	3.10 (30)	2.12 (67)	1.93 (43)	7.19 (50)
ZZ-DS-503	3.06 (41)	2.05 (71)	1.98 (30)	7.12 (60)
ZZ-DS-548	3.07 (38)	2.14 (65)	1.83 (69)	7.02 (64)
ZZ-DS-512	3.01 (54)	2.19 (60)	2.01 (21)	7.18 (52)
DK-120	3.06 (46)	2.56 (4)	1.91 (51)	7.50 (27)
DK-135	3.04 (48)	2.66 (2)	1.97 (32)	7.59 (15)
Advantage	2.93 (63)	2.21 (56)	1.89 (57)	7.03 (63)
Mohawk	3.19 (12)	2.23 (51)	2.05 (13)	7.43 (30)
Oneida-VR	3.00 (56)	2.29 (41)	2.07 (9)	7.34 (38)
ZZ-NY-8413	2.98 (58)	2.28 (43)	1.91 (52)	7.15 (54)
ZZ-NY-8412	3.00 (55)	2.36 (29)	1.90 (56)	7.19 (51)
Jubilee	2.86 (69)	2.22 (54)	1.93 (44)	6.99 (66)
Saranac-AR	2.87 (66)	2.36 (27)	1.92 (48)	7.14 (56)
Arc	2.97 (59)	2.19 (62)	1.83 (67)	6.92 (69)
ZZ-XAF-31	3.37 (2)	2.48 (11)	1.98 (31)	7.85 (5)
ZZ-XAR-32	2.96 (60)	2.27 (45)	1.85 (64)	7.08 (62)
P-531	3.09 (33)	2.20 (59)	1.93 (45)	7.21 (47)
P-532	3.12 (26)	2.23 (52)	1.97 (33)	7.30 (43)
P-526	3.15 (18)	2.19 (61)	1.85 (66)	7.14 (57)
Elevation	3.06 (44)	2.24 (49)	1.83 (68)	7.12 (59)
Emerald	3.19 (14)	2.30 (39)	2.08 (8)	7.57 (19)
Maxim	3.11 (28)	2.48 (12)	2.14 (3)	7.66 (14)
Conestoga	2.96 (61)	1.73 (72)	2.06 (10)	6.78 (71)
ZZ-DS-547	3.08 (37)	2.34 (34)	2.03 (18)	7.46 (29)
ZZ-DS-537	3.12 (25)	2.47 (14)	2.10 (6)	7.67 (13)
ZZ-Bosworth	2.86 (68)	2.42 (18)	1.89 (59)	7.17 (53)
Eastern Haymaste	3.32 (4)	2.60 (3)	1.99 (28)	7.86 (3)

Table 7. 1985 USDA Alfalfa Trial - Rock Springs
Yields (T/A @ 12% moisture).

entry	Cut-1 6/6/86	Cut-2 7/21/86	Cut-3 9/4/86	1986 Total
ZZ-LW-38	2.85 (71)	2.20 (57)	1.90 (53)	6.96 (67)
ZZ-NE-83	3.13 (23)	2.08 (69)	1.92 (46)	7.14 (55)
Sparta	3.27 (5)	2.55 (6)	1.94 (42)	7.73 (8)
ZZ-RS-239	3.19 (13)	2.42 (19)	2.05 (14)	7.70 (10)
ZZ-RS-242	3.06 (42)	2.56 (5)	1.92 (49)	7.57 (20)
Peak	3.23 (10)	2.47 (13)	1.89 (61)	7.58 (17)
ZZ-LL-3309	3.14 (19)	2.41 (21)	1.96 (39)	7.53 (25)
ZZ-B4-D-95	3.27 (7)	2.40 (23)	2.03 (17)	7.67 (12)
ZZ-B4-D-94	3.02 (53)	2.34 (32)	1.98 (29)	7.39 (32)
ZZ-B4-C-75	2.92 (64)	2.27 (44)	1.97 (34)	7.21 (49)
ZZ-B4-B-26	3.11 (27)	2.26 (46)	1.85 (65)	7.21 (48)
ZZ-B4-B-47	3.09 (34)	2.34 (31)	2.03 (19)	7.54 (22)
ZZ-B4-B-37	3.10 (32)	2.24 (50)	1.91 (50)	7.31 (39)
ZZ-B4-R-01	3.06 (43)	2.39 (24)	1.89 (58)	7.36 (34)
ZZ-B4-S-37	3.09 (35)	2.21 (55)	2.00 (24)	7.36 (36)
ZZ-WEX-88	3.17 (17)	2.51 (9)	2.15 (2)	7.89 (2)
MEAN	3.08	2.32	1.97	7.37
CV(%)	6.84	12.68	7.30	6.00
LSD(p=0.05)	-1.00	-1.00	.20	.62
Rel.Eff.(%)	104.90	101.00	171.10	123.40

Negative LSD value implies not significant

Table 7. 1985 USDA Alfalfa Trial - Rock Springs
Yields (T/A @ 12% moisture).

source	d.f.	Cut-1 6/6/86	Cut-2 7/21/86	Cut-3 9/4/86	1986 Total
Total	287	.0598	.0989	.0395	.3009
Reps	3	.6200	.5992	.1258	2.1598
Treatments	71	.0756	.1112	.0486	.4006
Blocks (Adj)	32	.0795	.1134	.1371	.6478
Comp. A	16	.0893	.1204	.1526	.7301
Comp. B	16	.0696	.1064	.1217	.5655
Error	181	.0408	.0831	.0172	.1696

Table 8. 1985 USDA Alfalfa Trial - Rock Springs
 Heights (cm.) and Stand score (1 to 9, 9 = best).

entry	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
ZZ-CW-334	34.9 (20)	34.7 (20)	24.1 (8)	8.7 (59)
ZZ-CW-430	35.6 (15)	32.1 (61)	19.7 (62)	9.0 (31)
ZZ-CW-440	34.9 (21)	30.7 (70)	20.7 (51)	9.0 (20)
ZZ-CW-341	32.4 (66)	32.3 (58)	19.9 (59)	9.0 (19)
ZZ-CW-414	36.8 (8)	32.0 (64)	20.8 (48)	9.0 (30)
ZZ-CW-312	35.6 (16)	33.5 (40)	20.8 (46)	9.0 (27)
ZZ-Agway-E12	34.9 (22)	34.6 (21)	20.7 (50)	9.0 (15)
ZZ-H-15-84	33.7 (47)	34.3 (25)	21.2 (36)	8.5 (68)
ZZ-S-34-84	34.9 (23)	34.9 (18)	21.1 (39)	9.0 (6)
ZZ-S-39-84	32.4 (67)	34.0 (30)	21.2 (37)	8.7 (56)
ZZ-H-6-84	34.9 (24)	30.0 (71)	19.1 (68)	9.0 (13)
WL-316	35.6 (17)	37.3 (3)	24.0 (9)	9.0 (11)
WL-320	33.7 (48)	33.8 (34)	24.3 (6)	9.0 (23)
Hi-Phy	33.7 (49)	32.8 (48)	22.4 (22)	9.0 (17)
Anstar	36.8 (9)	33.3 (42)	20.3 (56)	8.8 (46)
ZZ-NK-B2503	36.8 (10)	33.6 (38)	20.2 (57)	9.0 (12)
ZZ-NK-B3630	34.3 (34)	32.7 (49)	21.3 (34)	8.8 (37)
ZZ-NK-B4633	33.7 (50)	33.0 (45)	20.7 (53)	8.8 (43)
ZZ-NK-B3632	33.7 (51)	32.9 (47)	22.4 (23)	8.5 (63)
ZZ-NK-B3631	32.4 (68)	31.9 (65)	19.1 (67)	8.8 (39)
Apollo II	38.1 (2)	34.1 (27)	19.3 (64)	8.8 (44)
ZZ-NAPB-35	34.9 (25)	32.5 (53)	22.5 (18)	9.0 (5)
ZZ-NAPB-32	34.3 (35)	33.0 (46)	19.2 (66)	9.0 (2)
Dart	34.3 (36)	33.3 (43)	21.0 (41)	9.0 (3)
Arrow	34.3 (37)	35.4 (11)	21.6 (30)	9.0 (9)
Shenandoah	33.7 (52)	33.9 (33)	24.2 (7)	8.7 (57)
Cimarron	36.8 (11)	33.2 (44)	21.0 (40)	8.7 (60)
Magnum	33.7 (53)	32.7 (50)	20.7 (52)	8.7 (51)

Table 8. 1985 USDA Alfalfa Trial - Rock Springs
 Heights (cm.) and Stand score (1 to 9, 9 = best).

entry	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
Futura	34.9 (26)	35.6 (9)	20.9 (44)	9.0 (28)
ZZ-DS-305	34.3 (38)	36.5 (4)	23.5 (11)	8.2 (72)
ZZ-DS-503	34.3 (39)	37.6 (2)	22.7 (16)	8.7 (50)
ZZ-DS-548	33.7 (54)	34.1 (29)	22.0 (27)	9.0 (16)
ZZ-DS-512	37.5 (4)	35.1 (16)	21.9 (28)	8.5 (66)
DK-120	33.7 (55)	29.7 (72)	21.3 (33)	9.0 (32)
DK-135	34.9 (27)	36.1 (6)	22.6 (17)	8.5 (70)
Advantage	33.7 (56)	34.0 (31)	23.6 (10)	8.7 (54)
Mohawk	34.3 (40)	35.2 (14)	19.3 (65)	9.0 (33)
Oneida-VR	33.7 (57)	35.5 (10)	22.5 (19)	9.0 (29)
ZZ-NY-8413	34.9 (28)	35.4 (12)	20.4 (55)	8.7 (53)
ZZ-NY-8412	36.2 (14)	32.5 (52)	21.0 (43)	8.5 (69)
Jubilee	34.3 (41)	33.7 (37)	20.9 (45)	8.8 (42)
Saranac-AR	32.4 (69)	34.6 (22)	18.4 (70)	9.0 (24)
Arc	35.6 (18)	32.1 (62)	21.0 (42)	9.0 (26)
ZZ-XAF-31	34.3 (42)	36.4 (5)	22.0 (26)	9.0 (14)
ZZ-XAR-32	37.5 (5)	34.1 (28)	23.1 (12)	8.8 (47)
P-531	37.5 (6)	32.1 (60)	22.2 (25)	8.7 (52)
P-532	31.8 (71)	33.3 (41)	17.6 (71)	9.0 (10)
P-526	34.9 (29)	32.3 (55)	17.4 (72)	8.8 (48)
Elevation	34.9 (30)	32.4 (54)	23.1 (14)	9.0 (4)
Emerald	34.9 (31)	34.6 (24)	22.5 (20)	8.5 (67)
Maxim	33.7 (58)	35.2 (15)	23.1 (13)	9.0 (21)
Conestoga	36.8 (12)	35.0 (17)	25.4 (1)	9.0 (8)
ZZ-DS-547	36.8 (13)	35.3 (13)	22.7 (15)	8.8 (45)
ZZ-DS-537	38.1 (3)	35.7 (8)	24.9 (2)	9.0 (18)
ZZ-Bosworth	32.4 (70)	32.0 (63)	19.7 (61)	9.0 (7)
Eastern Haymaste	34.3 (43)	32.3 (56)	21.5 (31)	8.5 (65)

Table 8. 1985 USDA Alfalfa Trial - Rock Springs
 Heights (cm.) and Stand score (1 to 9, 9 = best).

entry	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
ZZ-LW-38	34.3 (44)	34.9 (19)	24.6 (4)	8.8 (36)
ZZ-NE-83	33.7 (59)	31.4 (68)	20.8 (47)	8.8 (40)
Sparta	31.8 (72)	34.6 (23)	21.5 (32)	8.3 (71)
ZZ-RS-239	34.9 (32)	33.8 (35)	21.2 (35)	8.5 (62)
ZZ-RS-242	38.7 (1)	33.5 (39)	19.9 (60)	9. (1)
Peak	35.6 (19)	33.8 (36)	20.1 (58)	8.8 (41)
ZZ-LL-3309	34.9 (33)	31.5 (67)	20.8 (49)	8.5 (64)
ZZ-84-D-95	37.5 (7)	34.2 (26)	22.4 (21)	8.8 (38)
ZZ-84-D-94	33.0 (63)	31.2 (69)	21.2 (38)	8.8 (49)
ZZ-84-C-75	34.3 (45)	36.0 (7)	24.4 (5)	9.0 (34)
ZZ-84-B-26	33.0 (64)	32.2 (59)	21.9 (29)	8.7 (61)
ZZ-84-B-47	33.7 (60)	33.9 (32)	22.2 (24)	8.7 (55)
ZZ-84-B-37	33.0 (65)	32.3 (57)	19.6 (63)	9.0 (25)
ZZ-84-R-01	34.3 (46)	32.6 (51)	18.6 (69)	9.0 (35)
ZZ-84-S-37	33.7 (61)	31.6 (66)	20.5 (54)	8.7 (58)
ZZ-WEX-88	33.7 (62)	37.8 (1)	24.8 (3)	9.0 (22)
MEAN	34.7	33.7	21.5	8.8
CV (%)	7.9	7.8	12.1	4.2
LSD (p=0.05)	-1.0	-1.0	-1.0	-1.0
Rel.Eff. (%)	98.5	111.0	115.5	100.8

Negative LSD value implies not significant

Table 8. 1985 USDA Alfalfa Trial - Rock Springs
 Heights (cm.) and Stand score (1 to 9, 9 = best).

source	d.f.	Height 5/8/86	Height 6/23/86	Height 9/24/86	Stand 9/24/86
Total	287	8.02	9.09	8.79	.14
Reps	3	12.63	42.61	27.98	.04
Treatments	71	9.92	11.78	11.13	.16
Blocks(Adj)	32	6.71	16.30	18.15	.18
Comp.A	16	8.10	15.99	25.19	.22
Comp.B	16	5.32	16.62	11.12	.13
Error	181	7.43	6.20	5.91	.13

Table 9. 1985 USDA Alfalfa Trial - Hershey
Yields (T/A @ 12% moisture).

entry	Cut-1 5/28/86	Cut-2 6/27/86	Cut-3 8/6/86	Cut-4 9/12/86	1986 Total
ZZ-CW-334	4.22 (1)	1.47 (57)	1.10 (55)	1.30 (28)	8.04 (16)
ZZ-CW-442	3.86 (6)	1.69 (12)	1.18 (47)	1.16 (53)	7.89 (22)
ZZ-CW-449	3.09 (66)	1.46 (59)	1.42 (30)	1.43 (14)	7.27 (50)
ZZ-CW-341	3.29 (51)	1.39 (67)	1.09 (56)	1.23 (39)	6.89 (64)
ZZ-CW-414	3.75 (10)	1.57 (38)	2.15 (1)	1.54 (2)	8.91 (1)
ZZ-CW-312	3.89 (4)	1.44 (63)	1.71 (7)	1.42 (15)	8.45 (5)
ZZ-AGWAY E-12	3.85 (8)	1.74 (9)	1.90 (2)	1.51 (5)	8.90 (2)
ZZ-H-15-84	3.73 (11)	1.80 (2)	1.17 (48)	1.53 (4)	8.15 (12)
ZZ-S-34-84	3.01 (68)	1.59 (35)	1.19 (44)	1.41 (16)	7.29 (47)
ZZ-S-39-84	3.53 (23)	1.55 (45)	1.16 (50)	1.19 (47)	7.49 (38)
WL-316	3.41 (36)	1.68 (15)	1.44 (28)	1.54 (3)	8.16 (11)
WL-320	2.83 (72)	1.39 (68)	1.10 (54)	1.20 (43)	6.59 (69)
HI-PHY	3.27 (52)	1.63 (27)	1.17 (49)	1.07 (61)	7.28 (49)
ANSTAR	3.27 (56)	1.56 (42)	1.21 (43)	1.17 (51)	7.33 (46)
COMMANDOR	3.49 (28)	1.84 (1)	.81 (70)	1.22 (40)	7.48 (39)
ZZ-NK-83630	3.57 (20)	1.63 (25)	1.52 (17)	1.36 (19)	8.17 (10)
ZZ-NK-84633	3.17 (61)	1.64 (23)	1.51 (21)	1.36 (20)	7.68 (28)
ZZ-NK-83631	3.25 (59)	1.58 (37)	1.43 (29)	1.43 (13)	7.61 (32)
ZZ-NK-83632	3.53 (24)	1.56 (41)	1.36 (33)	1.26 (35)	7.64 (30)
ZZ-ICO-16	3.51 (25)	1.45 (61)	1.55 (14)	1.36 (21)	7.86 (23)
ZZ-ICB-31	3.87 (5)	1.73 (10)	.81 (71)	.87 (70)	7.25 (51)
APOLLO II	3.27 (54)	1.61 (31)	1.30 (37)	1.26 (34)	7.45 (42)
ZZ-NAPB-35	3.39 (39)	1.64 (21)	1.04 (59)	1.19 (49)	7.21 (52)
ZZ-NAPB-32	3.25 (58)	1.67 (17)	.95 (63)	1.12 (54)	6.91 (62)
DART	3.37 (40)	1.52 (49)	1.52 (18)	1.34 (22)	7.70 (27)
ARROW	3.41 (35)	1.74 (7)	1.69 (9)	1.55 (1)	8.37 (8)
SHENANDOAH	3.54 (22)	1.55 (43)	.92 (66)	1.20 (45)	7.20 (54)
CIMARRON	3.49 (27)	1.53 (47)	1.19 (45)	1.20 (44)	7.43 (43)

Table 9. 1985 USDA Alfalfa Trial - Hershey
Yields (T/A @ 12% moisture).

entry	Cut-1 5/28/86	Cut-2 6/27/86	Cut-3 8/6/86	Cut-4 9/12/86	1986 Total
MAGNUM	3.89 (3)	1.72 (11)	1.65 (10)	1.24 (38)	8.55 (4)
FUTURA	3.63 (15)	1.50 (51)	1.33 (36)	1.11 (58)	7.60 (33)
ZZ-DS-305	3.60 (18)	1.67 (16)	1.88 (3)	1.41 (17)	8.56 (3)
ZZ-DS-503	3.42 (33)	1.63 (26)	1.27 (40)	1.25 (37)	7.62 (31)
ZZ-DS-548	3.32 (47)	1.50 (53)	1.55 (15)	1.44 (12)	7.79 (26)
ZZ-DS-512	3.13 (64)	1.50 (52)	1.48 (23)	1.27 (32)	7.40 (44)
DK-120	3.85 (7)	1.49 (54)	1.34 (35)	.71 (71)	7.46 (41)
DK-135	3.44 (31)	1.69 (13)	1.51 (20)	1.48 (8)	8.14 (13)
ADVANTAGE	3.42 (34)	1.48 (56)	1.39 (32)	1.34 (23)	7.64 (29)
MOHAWK	3.09 (67)	1.63 (28)	1.19 (46)	1.29 (31)	7.21 (53)
ONEIDA VR	3.93 (2)	1.79 (3)	1.46 (26)	1.18 (50)	8.40 (7)
ZZ-NY-8413	3.62 (17)	1.64 (24)	1.47 (25)	1.45 (11)	8.12 (15)
ZZ-NY-8412	3.63 (16)	1.61 (32)	.94 (64)	1.12 (56)	7.29 (48)
JUBILEE	2.93 (71)	1.43 (65)	1.16 (51)	1.31 (27)	6.93 (61)
SARANAC AR	3.85 (9)	1.64 (22)	1.36 (34)	1.46 (9)	8.35 (9)
ARC	3.14 (63)	.78 (72)	1.59 (11)	1.30 (29)	6.88 (65)
ZZ-XAF 31	3.68 (12)	1.36 (69)	1.53 (16)	.99 (65)	7.59 (36)
ZZ-XAR-32	3.64 (13)	1.77 (5)	1.39 (31)	1.03 (63)	7.93 (21)
531	2.97 (70)	1.35 (70)	.76 (72)	1.21 (42)	6.27 (72)
532	3.55 (21)	1.74 (8)	1.23 (42)	1.08 (60)	7.60 (34)
526	3.32 (46)	1.58 (36)	1.03 (60)	.89 (69)	6.91 (63)
ELEVATION	3.45 (30)	1.59 (34)	1.75 (4)	1.07 (62)	7.95 (20)
EMERALD	3.41 (37)	1.76 (6)	1.73 (5)	1.01 (64)	8.03 (17)
MAXIM	3.33 (43)	1.62 (29)	1.23 (41)	1.27 (33)	7.52 (37)
CONESTOGA	3.25 (57)	1.55 (44)	1.57 (13)	1.41 (18)	7.83 (25)
ZZ-DS-547	3.43 (32)	1.79 (4)	1.48 (24)	1.31 (26)	8.13 (14)
ZZ-DS-537	3.27 (55)	1.56 (40)	1.07 (57)	1.19 (48)	7.12 (56)
BOSWORTH	3.50 (26)	1.66 (19)	1.29 (38)	.70 (72)	7.16 (55)

Table 9. 1985 USDA Alfalfa Trial - Hershey
Yields (T/A @ 12% moisture).

entry	Cut-1 5/28/86	Cut-2 6/27/86	Cut-3 8/6/86	Cut-4 9/12/86	1986 Total
EASTERN HAYMASTE	3.00 (69)	1.51 (50)	.99 (62)	1.09 (59)	6.51 (70)
ZZ-LW-38	3.09 (65)	1.52 (48)	1.70 (8)	1.11 (57)	7.48 (40)
ZZ-NE-83	3.33 (44)	1.45 (60)	1.15 (53)	1.19 (46)	7.05 (57)
SPARTA	3.33 (45)	1.56 (39)	1.03 (61)	.95 (67)	6.80 (67)
ZZ-RS-239	3.16 (62)	1.42 (66)	.93 (65)	1.32 (25)	6.80 (66)
ZZ-RS-242	3.22 (60)	1.26 (71)	1.16 (52)	1.21 (41)	6.74 (68)
WETZEL-88	3.63 (14)	1.60 (33)	.91 (67)	.98 (66)	7.05 (58)
84-C-75	3.31 (50)	1.54 (46)	1.06 (58)	1.17 (52)	7.03 (59)
84-D-94	3.33 (41)	1.61 (30)	1.52 (19)	1.49 (6)	7.97 (19)
84-C-74	3.31 (49)	1.49 (55)	.89 (68)	1.30 (30)	7.02 (60)
84-D-95	3.60 (19)	1.67 (18)	1.71 (6)	1.45 (10)	8.42 (6)
WEX-85	3.40 (38)	1.44 (62)	1.44 (27)	1.26 (36)	7.59 (35)
WL-220	3.27 (53)	1.44 (64)	.88 (69)	.94 (68)	6.47 (71)
ZZ-WL-84-25	3.32 (48)	1.65 (20)	1.29 (39)	1.12 (55)	7.36 (45)
ZZ-WL-84-19	3.33 (42)	1.46 (58)	1.59 (12)	1.48 (7)	7.83 (24)
ZZ-WL-82-5	3.48 (29)	1.68 (14)	1.50 (22)	1.32 (24)	8.00 (18)
MEAN	3.43	1.57	1.32	1.24	7.57
CV(%)	8.41	17.25	33.92	16.78	11.25
LSD(p=0.05)	.47	-1.00	-1.00	.34	-1.00
Rel.Eff.(%)	133.20	135.00	96.90	94.10	116.40

Negative LSD value implies not significant

Table 9. 1985 USDA Alfalfa Trial - Hershey
Yields (T/A @ 12% moisture).

source	d.f.	Cut-1	Cut-2	Cut-3	Cut-4	1986
		5/28/86	6/27/86	8/6/86	9/12/86	Total
Total	215	.1635	.1227	.2331	.0647	1.0003
reps	2	.6133	2.3171	2.2896	.2728	6.4984
entries	71	.2563	.1085	.2530	.1065	1.1584
blocks	24	.2936	.2767	.1636	.0282	1.7783
error	118	.0736	.0627	.2003	.0434	.6537

Table 10. 1985 USDA Alfalfa Trial - Hershey
 Heights (cm.) and Stand (1 - 9, 9 = best).

entry	Height 5/2/86	Height 6/12/86	Height 10/9/86	Stand 10/9/86
ZZ-CW-334	40.6 (42)	30.3 (16)	24.5 (67)	8.3 (46)
ZZ-CW-442	42.3 (21)	28.4 (39)	29.1 (17)	8.6 (34)
ZZ-CW-449	44.9 (4)	24.4 (70)	27.2 (41)	8.3 (47)
ZZ-CW-341	40.6 (43)	24.5 (69)	23.9 (69)	8.3 (50)
ZZ-CW-414	44.0 (6)	27.3 (60)	27.1 (44)	8.9 (15)
ZZ-CW-312	42.3 (22)	28.9 (35)	27.2 (43)	9.0 (3)
ZZ-AGWAY E-12	39.8 (49)	27.9 (52)	25.9 (57)	9.0 (9)
ZZ-H-15-84	35.6 (72)	27.9 (50)	25.4 (62)	9.0 (7)
ZZ-S-34-84	38.9 (58)	32.7 (3)	29.9 (11)	8.7 (22)
ZZ-S-39-84	39.8 (50)	29.3 (29)	29.5 (13)	8.6 (36)
WL-316	45.7 (2)	31.4 (7)	31.0 (5)	9.0 (5)
WL-320	39.8 (51)	29.5 (26)	29.3 (15)	9.0 (6)
HI-PHY	40.6 (44)	29.8 (22)	28.8 (22)	8.3 (48)
ANSTAR	39.8 (52)	29.1 (34)	29.0 (19)	8.4 (39)
COMMANDOR	38.9 (59)	28.2 (42)	26.7 (48)	7.6 (67)
ZZ-NK-83630	47.4 (1)	30.2 (17)	28.6 (24)	8.3 (45)
ZZ-NK-84633	42.3 (23)	28.0 (48)	28.3 (29)	8.7 (30)
ZZ-NK-83631	39.8 (53)	29.1 (33)	26.8 (46)	8.9 (19)
ZZ-NK-83632	42.3 (24)	28.4 (38)	27.4 (39)	8.0 (60)
ZZ-ICD-16	41.5 (33)	27.4 (59)	28.7 (23)	8.6 (31)
ZZ-ICB-31	42.3 (25)	27.8 (53)	28.4 (26)	7.6 (68)
APOLLO II	44.0 (7)	28.2 (43)	26.8 (47)	8.4 (41)
ZZ-NAPB-35	43.2 (11)	30.2 (18)	27.7 (37)	8.0 (63)
ZZ-NAPB-32	42.3 (26)	29.1 (32)	22.3 (71)	8.0 (58)
DART	41.5 (34)	29.2 (31)	29.1 (18)	9.0 (12)
ARROW	38.1 (66)	32.3 (6)	26.6 (49)	8.9 (17)
SHENANDOAH	43.2 (12)	31.1 (10)	30.0 (10)	7.9 (64)
CIMARRON	38.1 (67)	30.4 (13)	34.2 (1)	8.7 (23)

Table 10. 1985 USDA Alfalfa Trial - Hershey
Heights (cm.) and Stand (1 - 9, 9 = best).

entry	Height 5/2/86	Height 6/12/86	Height 10/9/86	Stand 10/9/86
MAGNUM	39.8 (54)	25.2 (68)	26.1 (53)	8.7 (28)
FUTURA	37.3 (69)	27.5 (58)	26.1 (54)	7.4 (69)
ZZ-DS-305	42.3 (27)	32.3 (5)	28.9 (20)	8.7 (24)
ZZ-DS-503	41.5 (35)	29.4 (27)	30.8 (6)	8.7 (25)
ZZ-DS-548	39.8 (55)	30.4 (14)	30.5 (7)	9.0 (13)
ZZ-DS-512	38.9 (60)	29.7 (24)	28.0 (33)	8.3 (53)
DK-120	43.2 (13)	26.9 (62)	29.3 (14)	6.6 (72)
DK-135	40.6 (45)	28.0 (46)	32.3 (3)	9.1 (2)
ADVANTAGE	41.5 (36)	25.8 (67)	25.4 (64)	8.7 (27)
MOHAWK	44.0 (8)	29.3 (28)	27.2 (42)	8.5 (37)
ONEIDA VR	44.0 (9)	33.2 (1)	28.1 (32)	8.3 (44)
ZZ-NY-8413	42.3 (28)	30.4 (15)	29.8 (12)	9.0 (8)
ZZ-NY-8412	41.5 (37)	27.5 (57)	27.0 (45)	8.7 (29)
JUBILEE	40.6 (46)	28.5 (37)	32.6 (2)	8.0 (61)
SARANAC AR	43.2 (14)	29.3 (30)	24.8 (66)	9.0 (10)
ARC	45.7 (3)	29.8 (21)	28.4 (25)	9.1 (1)
ZZ-XAF 31	44.9 (5)	27.8 (54)	28.8 (21)	8.1 (57)
ZZ-XAR-32	43.2 (15)	32.4 (4)	28.3 (28)	8.1 (55)
531	43.2 (16)	27.0 (61)	25.6 (59)	8.3 (49)
532	42.3 (29)	31.2 (8)	25.5 (60)	7.7 (66)
526	37.3 (70)	26.2 (66)	21.2 (72)	7.7 (65)
ELEVATION	38.9 (61)	28.3 (41)	25.4 (63)	8.4 (40)
EMERALD	40.6 (47)	27.6 (55)	29.2 (16)	8.0 (59)
MAXIM	42.3 (30)	30.9 (12)	30.2 (8)	8.5 (38)
CONESTOGA	41.5 (38)	28.4 (40)	26.5 (51)	8.8 (20)
ZZ-DS-547	39.8 (56)	31.2 (9)	30.1 (9)	8.8 (21)
ZZ-DS-537	42.3 (31)	31.1 (11)	27.9 (35)	8.3 (43)
BOSWORTH	38.9 (62)	28.2 (44)	22.7 (70)	7.1 (71)

Table 10. 1985 USDA Alfalfa Trial - Hershey
 Heights (cm.) and Stand (1 - 9, 9 = best).

entry	Height 5/2/86	Height 6/12/86	Height 10/9/86	Stand 10/9/86
EASTERN HAYMASTE	38.9 (63)	27.9 (51)	24.9 (65)	8.3 (51)
ZZ-LW-38	38.1 (68)	20.0 (72)	28.0 (34)	8.9 (18)
ZZ-NE-83	38.9 (64)	28.0 (47)	25.8 (58)	8.2 (54)
SPARTA	40.6 (48)	26.7 (63)	26.1 (52)	8.1 (56)
ZZ-RS-239	41.5 (39)	28.2 (45)	27.3 (40)	8.7 (26)
ZZ-RS-242	43.2 (17)	23.4 (71)	28.1 (30)	8.6 (35)
WETZEL-88	43.2 (18)	27.9 (49)	26.1 (55)	7.3 (70)
84-C-75	37.3 (71)	28.9 (36)	27.8 (36)	8.3 (52)
84-D-94	41.5 (40)	27.5 (56)	28.1 (31)	9.0 (11)
84-C-74	44.0 (10)	30.1 (20)	24.3 (68)	8.6 (32)
84-D-95	43.2 (19)	26.6 (65)	26.6 (50)	9.0 (14)
WEX-85	41.5 (41)	30.1 (19)	28.3 (27)	8.4 (42)
WL-220	39.8 (57)	26.6 (64)	25.9 (56)	8.0 (62)
ZZ-WL-84-25	38.9 (65)	29.7 (23)	27.5 (38)	8.6 (33)
ZZ-WL-84-19	43.2 (20)	29.7 (25)	31.3 (4)	9.0 (4)
ZZ-WL-82-5	42.3 (32)	32.7 (2)	25.5 (61)	8.9 (16)
MEAN	41.4	28.7	27.6	8.4
CV(%)	7.2	12.0	10.4	9.0
LSD(p=0.05)	-1.0	-1.0	4.6	-1.0
Rel.Eff.(%)	98.8	107.9	110.8	101.8

Negative LSD value implies not significant

Table 10. 1985 USDA Alfalfa Trial - Hershey
 Heights (cm.) and Stand (1 - 9, 9 = best).

source	d.f.	Height 5/2/86	Height 6/12/86	Height 10/9/86	Stand 10/9/86
Total	215	10.92	16.09	11.65	.67
reps	2	.21	223.33	5.23	2.23
entries	71	15.55	16.68	16.94	.80
blocks	24	8.23	22.21	17.00	.77
error	118	8.86	10.98	7.50	.55

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1982 NE Regional Alfalfa Trial - Series A
Location: Ketola Field #1, Ithaca, NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/20	7/31	9/11	1986 Season Total	1986 Adj. Total	1985 Season Total	1984 Adj. Total	1983 Adj. Total	1983-86 Ave.
1	Ca 670-71	WL	2.35	1.98	1.12	5.45	5.48	4.56	6.05	4.77	5.22
2	DS-215	DLS	2.49	2.07	.97	5.53	5.52	4.31	5.66	4.63	5.03
3	Excalibur	AW	2.33	1.64	.96	4.93	4.94	4.32	5.89	4.77	4.98
4	Hi Phy	FFR	2.18	1.69	.98	4.85	4.96	4.22	5.87	4.65	4.92
5	Apollo II	NAPB	2.43	1.79	1.06	5.28	5.30	4.27	6.05	4.84	5.11
6	Advantage	Pfiz.	2.30	1.80	.97	5.07	5.11	4.62	6.05	4.87	5.16
7	ICO-16	Lov.	2.38	2.00	1.09	5.47	5.49	4.64	6.22	4.80	5.29
8	DS-226	DLS	2.15	1.64	.81	4.60	4.65	4.14	5.41	4.62	4.70
9	8015	C/W	2.53	1.88	.95	5.36	5.29	4.50	5.98	4.94	5.18
10	Decathalon	Carg.	2.31	1.89	1.07	5.26	5.19	4.38	5.91	4.60	5.02
11	Agway Exp. 31	AW	2.46	2.10	1.13	5.70	5.60	4.28	5.63	4.63	5.04
12	BAP Syn.	NY	2.33	1.93	.99	5.25	5.35	4.09	5.85	4.60	4.98
13	WL-316	WL	2.16	1.78	.97	4.91	4.82	4.36	5.78	4.64	4.90
14	Vertus	Vert. res. check	1.59	1.20	.36	3.15	3.18	3.81	5.54	4.80	4.34
15	Oneida	Phytop. res. check	2.22	1.79	1.12	5.13	5.13	4.57	5.99	4.95	5.16
16	Saranac AR	Anthrac. res. check	2.32	1.75	.90	4.97	4.90	4.27	5.67	4.63	4.87
	Average		2.28	1.81	.97	5.06	5.06	4.33	5.85	4.73	4.99
	F-entries		6.58**	5.08**	9.37**	13.25**	15.23**	5.05**	3.22**	2.00*	
	LSD (P=.05)		.24	.27	.17	.45	.42	.27	.35	.29	
	CV (%)		8.3	11.8	14.0	7.1	6.5	5.0	4.6	5.0	
						Lattice Efficiency		120%		112%	160%

Note: Verticillium wilt symptoms prevalent in 1986.

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1983 NE Regional Alfalfa Trial - Series A

1984-86 Summary

[Yield - Tons/Acre @ 12% M]




























Rand. No.	Entry	Source	Ithaca, NY [Snyder #20]				Ithaca, NY [Ketola #1]				Rock Springs, PA			
			1984-86 Ave.	Rank			1984-86 Ave.	Rank			1984-86 Ave.	Rank		
				[84]	[85]	[86]		[84]	[85]	[86]		[84]	[85]	[86]
1	Apollo II	NAPB	6.39	[6]	[7]	[4]	5.62	[4]	[6]	[4]	4.88	[14]	[2]	[3]
2	NAPB-108	NAPB	6.36	[9]	[14]	[2]	5.60	[7]	[9]	[2]	4.85	[2]	[7]	[2]
3	NAPB-110	NAPB	6.32	[14]	[2]	[6]	5.67	[1]	[6]	[3]	4.69	[10]	[15]	[2]
4	Ca 744	WL	6.28	[13]	[4]	[8]	5.46	[15]	[6]	[6]	4.61	[7]	[16]	[5]
5	78W-1	WL	6.38	[11]	[10]	[1]	5.65	[2]	[1]	[7]	4.78	[3]	[7]	[4]
6	Action	C/W	6.37	[3]	[5]	[7]	5.51	[8]	[9]	[9]	4.74	[9]	[3]	[7]
7	Saranac AR	NY	6.11	[4]	[14]	[16]	5.35	[11]	[14]	[15]	4.43	[11]	[5]	[14]
8	Oneida	NY	6.28	[5]	[9]	[10]	5.39	[14]	[12]	[12]	4.50	[6]	[12]	[11]
9	Mohawk	NY	6.08	[9]	[15]	[13]	5.26	[16]	[15]	[13]	4.31	[12]	[11]	[15]
10	C/W 211	C/W	6.34	[16]	[3]	[5]	5.46	[12]	[9]	[11]	4.88	[4]	[1]	[8]
11	Summit	C/W	6.55	[1]	[1]	[4]	5.64	[3]	[2]	[5]	4.69	[2]	[9]	[9]
12	Vertus	-----	6.08	[10]	[16]	[12]	5.25	[7]	[16]	[16]	4.70	[8]	[4]	[10]
13	Polar II	NK	6.14	[2]	[14]	[15]	5.52	[5]	[10]	[10]	4.12	[15]	[13]	[16]
14	Trumpetor	NK	6.26	[7]	[8]	[10]	5.39	[10]	[14]	[14]	4.68	[6]	[10]	[6]
15	Quality Checks-Cycle 2 [Syn. 2]	NY	6.07	[12]	[11]	[15]	5.48	[10]	[11]	[8]	4.37	[13]	[8]	[13]
16	MS Quality-Cycle 2 [Syn. 2]	NY	6.14	[15]	[7]	[11]	5.55	[13]	[6]	[1]	4.27	[16]	[15]	[12]
	Average		6.26				5.49				4.59			

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1983 NE Regional Alfalfa Trial - Series A

Harvest Management Systems and Yield Levels

(1984-86)

	Rock Springs, PA	Ithaca, NY (Snyder #20)	Ithaca, NY (Ketola #1)
1984	6/12  37	6/5  42	6/19  43
1st	7/19  39	7/17  42	8/1  41
Hvst. Yr.	8/27  37	8/28  42	9/11  41
1985	5/29  43	6/7  45	6/6  43
2nd	7/11  40	7/22  44	7/19  46
Hvst. Yr.	8/20  40	9/4  44	9/3  46
1986	5/22  36	6/10  41	6/10  44
3rd	6/27  39	7/21  49	7/24  49
Hvst. Yr.	8/5  39	9/8  49	9/11  49

Average Yield (Tons/Acre @ 12% M)

1984	4.44	5.93	5.39
1985	4.91	6.36	4.47
1986	4.43	6.48	6.60
1984-86 Ave.	4.59	6.26	5.49

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1983 NE Regional Alfalfa - Series A
 Location: Snyder Field #20, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/10	7/21	9/8	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1984-86 Ave.
1	Apollo II	NAPB	3.05	1.77	1.74	6.56	6.81	6.39	5.97	6.39
2	NAPB-108	NAPB	3.27	1.81	1.75	6.83	6.93	6.24	5.90	6.36
3	NAPB-110	NAPB	2.94	1.73	1.71	6.39	6.62	6.54	5.81	6.32
4	Ca 744	WL	3.05	1.70	1.67	6.42	6.52	6.48	5.83	6.28
5	78W-1	WL	3.37	1.71	1.75	6.83	6.95	6.33	5.87	6.38
6	Action	C/W	3.09	1.76	1.66	6.51	6.58	6.45	6.08	6.37
7	Saranac AR	NY	3.08	1.73	1.45	6.27	6.04	6.24	6.04	6.11
8	Oneida	NY	3.02	1.79	1.65	6.46	6.50	6.36	5.98	6.28
9	Mohawk	NY	3.06	1.68	1.39	6.14	6.12	6.23	5.90	6.08
10	C/W 211	C/W	3.16	1.85	1.71	6.72	6.74	6.50	5.77	6.34
11	Summit	C/W	3.42	1.90	1.87	7.19	6.81	6.58	6.25	6.55
12	Vertus	----	3.07	1.51	1.38	5.96	6.22	6.12	5.89	6.08
13	Polar II	NK	2.84	1.69	1.62	6.14	6.07	6.24	6.12	6.14
14	Trumpetor	NK	3.26	1.81	1.56	6.63	6.50	6.38	5.91	6.26
15	Quality Checks-Cycle 2 (Syn. 2)	NY	3.07	1.72	1.24	6.04	6.07	6.31	5.84	6.07
16	MS Quality-Cycle 2 (Syn. 2)	NY	3.43	1.71	1.52	6.67	6.25	6.39	5.78	6.14
	Average		3.14	1.74	1.61	6.48	6.48	6.36	5.93	6.26
	F-entries		1.68-	.72-	3.10**	1.34-	2.53**	2.18*	1.66-	
	LSD (P=.05)		.37	.29	.27	.81	.57	.25	.29	
	CV (%)		9.3	13.2	13.3	9.8	6.9	3.0	3.9	
							Lattice Efficiency	204%	306%	262%

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1983 NE Regional Alfalfa Trial - Series A
 Location: Ketola Field #1, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/10	7/24	9/11	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1984-86 Ave.
1	Apollo II	NAPB	2.90	2.24	1.62	6.76	6.80	4.53	5.54	5.62
2	NAPB-108	NAPB	2.92	2.22	1.60	6.74	6.83	4.52	5.46	5.60
3	NAPB-110	NAPB	2.96	2.33	1.57	6.86	6.81	4.53	5.68	5.67
4	Ca 744	WL	2.96	2.17	1.61	6.74	6.73	4.53	5.12	5.46
5	78W-1	WL	2.85	2.13	1.55	6.53	6.69	4.65	5.62	5.65
6	Action	C/W	2.90	2.18	1.55	6.64	6.59	4.52	5.41	5.51
7	Saranac AR	NY	2.78	2.11	1.45	6.34	6.34	4.39	5.32	5.35
8	Oneida	NY	2.82	2.16	1.45	6.42	6.53	4.41	5.22	5.39
9	Mohawk	NY	2.92	2.09	1.36	6.37	6.46	4.29	5.02	5.26
10	C/W 211	C/W	2.92	2.21	1.60	6.73	6.56	4.52	5.29	5.46
11	Summit	C/W	2.94	2.21	1.62	6.77	6.76	4.57	5.60	5.64
12	Vertus	----	2.75	2.06	1.37	6.19	6.04	4.25	5.46	5.25
13	Polar II	NK	2.92	2.23	1.56	6.71	6.58	4.50	5.48	5.52
14	Trumpetor	NK	2.88	2.14	1.45	6.48	6.41	4.39	5.36	5.39
15	Quality Checks-Cycle 2 (Syn. 2)	NY	2.93	2.24	1.45	6.62	6.65	4.42	5.36	5.48
16	M-S Quality-Cycle 2 (Syn. 2)	NY	3.15	2.13	1.48	6.75	6.86	4.53	5.26	5.55
	Average		2.91	2.18	1.52	6.60	6.60	4.47	5.39	5.49
	F-entries		1.24-	1.17-	3.22**	1.56	3.36**	1.09-	2.08*	
	LSD (P=.05)		.22	.18	.14	.44	.34	.28	.36	
	CV (%)		6.1	6.5	7.2	5.2	4.0	4.9	5.3	
						Lattice Efficiency	170%	140%	185%	

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1983 NE Regional Alfalfa Trial - Series A

Location: Rock Springs, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/22	6/27	8/5	1986 Season Total	1985 Season Total	1984 Season Total	1984-86 Ave.
1	Apollo II	NAPB	1.82	1.59	1.48	4.89	5.44	4.30	4.88
2	NAPB-108	NAPB	1.75	1.69	1.55	5.00	4.94	4.60	4.85
3	NAPB-110	NAPB	1.90	1.63	1.47	5.00	4.65	4.41	4.69
4	Ca744	W/L	1.69	1.61	1.44	4.74	4.61	4.49	4.61
5	78W-1	W/L	1.65	1.66	1.48	4.79	4.94	4.59	4.78
6	Action	C/W	1.72	1.47	1.45	4.65	5.11	4.45	4.74
7	Saranac AR	NY	1.39	1.20	1.26	3.86	5.04	4.38	4.43
8	Oneida	NY	1.66	1.26	1.36	4.27	4.71	4.51	4.50
9	Mohawk	NY	1.39	1.25	1.18	3.82	4.76	4.36	4.31
10	C/W 211	C/W	1.50	1.59	1.54	4.63	5.46	4.54	4.88
11	Summit	C/W	1.76	1.44	1.41	4.61	4.85	4.60	4.69
12	Vertus	----	1.68	1.46	1.43	4.57	5.05	4.46	4.70
13	Polar II	NK	1.18	1.00	1.22	3.39	4.70	4.28	4.12
14	Trumpetor	NK	1.82	1.40	1.51	4.73	4.78	4.51	4.68
15	Checks Quality-Cycle 2 (Syn. 2)	NY	1.55	1.22	1.19	3.96	4.84	4.31	4.37
16	MS Quality-Cycle 2 (Syn. 2)	NY	1.40	1.18	1.39	3.97	4.65	4.19	4.27
	Average		1.62	1.42	1.40	4.43	4.91	4.44	4.59
	F-entries		8.27**	7.15**	3.41**	12.80**	2.16*	1.11-	
	LSD (P=.05)		.19	.22	.19	.39	.50	.34	
	CV (%)		9.5	12.4	10.7	6.9	8.1	6.0	

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1983 NE Regional Alfalfa Trial - Series B

1984-86 Summary

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	Ithaca, NY (Ketola #1)				Landisville, PA			
			1984-86 Ave.	Rank			1984-86 Ave.	Rank		
				(84)	(85)	(86)		(84)	(85)	(86)
1	Apollo II	NAPB	6.22	(4)	(11)	(5)	4.28	(8)	(6)	(13)
2	NAPB-108	NAPB	6.30	(3)	(5)	(3)	4.37	(11)	(8)	(5)
3	NAPB-110	NAPB	6.40	(1)	(3)	(2)	4.43	(12)	(7)	(1)
4	Ca 744	WL	6.03	(15)	(12)	(9)	4.21	(3)	(16)	(9)
5	78W-1	WL	6.15	(10)	(7)	(7)	4.28	(1)	(11)	(16)
6	Action	C/W	6.28	(5)	(10)	(1)	4.44	(7)	(1)	(8)
7	Saranac AR	NY	5.80	(13)	(16)	(15)	4.22	(2)	(15)	(12)
8	Oneida	NY	6.14	(8)	(6)	(11)	4.03	(15)	(13)	(15)
9	Mohawk	NY	6.03	(12)	(9)	(14)	4.31	(16)	(3)	(7)
10	8302	NY	6.14	(11)	(4)	(8)	4.18	(5)	(14)	(11)
11	(Hon. AR ₃ X Oneida)	NY	6.03	(9)	(14)	(12)	4.49	(10)	(2)	(2)
12	Honeoye AR ₃	NY	5.81	(16)	(15)	(16)	4.42	(6)	(4)	(6)
13	Primal	NK	6.27	(6)	(2)	(4)	4.18	(14)	(9)	(14)
14	Preserve	NK	6.14	(2)	(9)	(14)	4.30	(4)	(10)	(10)
15	Checks Quality-Cycle 2 (Syn. 2)	NY	6.02	(14)	(13)	(10)	4.42	(13)	(6)	(3)
16	MS Quality-Cycle 2 (Syn. 2)	NY	6.24	(7)	(1)	(7)	4.32	(10)	(12)	(4)
	Average		6.12				4.30			

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1983 NE Regional Alfalfa Trial - Series B

Harvest Management Systems and Yield Levels

(1984-86)

	Landisville, PA	Ithaca, NY (Ketola #1)
1984	6/1	6/20
1st	7/9	8/2
Hvst. Yr.	8/16	9/17
	38	43
	38	46
1985	5/22	6/6
2nd	6/26	7/19
Hvst. Yr.	8/7	9/3
	33	43
	42	46
1986	5/29	6/13
3rd	7/3	7/25
Hvst. Yr.	8/12	9/11
	35	42
	40	48

Average Yield (Tons/Acre @ 12% M)

1984	3.86	6.16
1985	3.99	5.27
1986	5.06	6.95
1984-86 Ave.	4.30	6.12

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1983 NE Regional Alfalfa - Series B
 Location: Ketola Field #1, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/13	7/25	9/11	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1984-86 Ave.
1	Apollo II	NAPB	2.91	2.41	1.70	7.02	7.13	5.22	6.30	6.22
2	NAPB-108	NAPB	3.08	2.45	1.78	7.31	7.22	5.38	6.31	6.30
3	NAPB-110	NAPB	3.06	2.43	1.81	7.30	7.25	5.41	6.54	6.40
4	Ca 744	WL	2.79	2.40	1.69	6.87	6.95	5.21	5.94	6.03
5	78W-1	WL	2.94	2.41	1.59	6.95	7.01	5.32	6.12	6.15
6	Action	C/W	3.10	2.53	1.67	7.30	7.28	5.29	6.28	6.28
7	Saranac AR	NY	2.93	2.25	1.37	6.55	6.54	4.89	5.97	5.80
8	Oneida	NY	3.07	2.33	1.62	7.01	6.88	5.34	6.19	6.14
9	Mohawk	NY	2.93	2.34	1.39	6.66	6.75	5.30	6.03	6.03
10	(Flam. X AR) X AR	NY	3.04	2.41	1.50	6.96	6.97	5.39	6.05	6.14
11	(Hon. AR ₃ X Oneida)	NY	2.99	2.42	1.54	6.95	6.82	5.14	6.13	6.03
12	Honeoye AR ₃	NY	2.73	2.28	1.34	6.35	6.53	5.03	5.88	5.81
13	Primal	NK	3.13	2.35	1.61	7.09	7.17	5.42	6.22	6.27
14	Preserve	NK	2.89	2.43	1.44	6.76	6.75	5.30	6.38	6.14
15	Quality Checks-Cycle 2 (Syn. 2)	NY	3.22	2.45	1.31	6.98	6.93	5.16	5.96	6.02
16	MS Quality-Cycle 2 (Syn. 2)	NY	3.39	2.29	1.43	7.11	7.01	5.50	6.20	6.24
	Average		3.01	2.39	1.55	6.95	6.95	5.27	6.16	6.12
	F-entries		1.80-	2.87**	7.15**	3.52**	4.65**	2.96**	2.59**	
	LSD (P=.05)		.34	.12	.17	.40	.31	.26	.32	
	CV (%)		9.0	4.1	8.5	4.6	3.5	3.9	4.1	
	Lattice Efficiency						176%	162%	151%	

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1983 NE Regional Alfalfa Trial - Series B
Location: Landisville, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/29	7/3	8/12	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Season Total	1984-86 Ave.
1	Apollo II	NAPB	1.67	1.62	1.46	4.75	4.81	4.13	3.89	4.28
2	NAPB-108	NAPB	1.84	1.85	1.53	5.22	5.23	4.07	3.81	4.37
3	NAPB-110	NAPB	2.02	1.79	1.65	5.46	5.42	4.08	3.79	4.43
4	Ca 744	WL	1.92	1.67	1.50	5.09	5.01	3.63	3.98	4.21
5	78W-1	WL	1.77	1.61	1.49	4.87	4.74	3.92	4.18	4.28
6	Action	C/W	1.79	1.77	1.58	5.13	5.12	4.29	3.90	4.44
7	Saranac AR	NY	1.70	1.45	1.71	4.86	4.89	3.66	4.09	4.22
8	Oneida	NY	1.64	1.55	1.51	4.69	4.76	3.74	3.59	4.03
9	Mohawk	NY	2.14	1.44	1.57	5.15	5.14	4.24	3.53	4.31
10	8302	NY	1.65	1.53	1.67	4.86	4.90	3.69	3.94	4.18
11	(Hon. AR ₃ X Oneida)	NY	2.01	1.74	1.61	5.36	5.38	4.27	3.82	4.49
12	Honeoye AR ₃	NY	1.94	1.56	1.65	5.15	5.20	4.15	3.91	4.42
13	Primal	NK	1.90	1.45	1.49	4.84	4.79	4.04	3.71	4.18
14	Preserve	NK	1.69	1.63	1.65	4.96	4.98	3.94	3.97	4.30
15	Checks Quality-Cycle 2 (Syn. 2)	NY	2.10	1.73	1.53	5.36	5.35	4.13	3.77	4.42
16	MS Quality-Cycle 2 (Syn. 2)	NY	2.25	1.57	1.45	5.27	5.29	3.86	3.82	4.32
	Average		1.88	1.62	1.57	5.06	5.06	3.99	3.86	4.30
	F-entries		2.43**	2.74**	2.28*	1.74-	1.88-	1.92*	3.27**	
	LSD (P=.05)		.35	.22	.15	.51	.49	.45	.26	
	CV (%)		14.5	10.6	7.8	7.9	7.6	8.9	5.3	

Lattice Efficiency 109% 111%

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1984 NE Regional Alfalfa Trial - Series A

1985-86 Summary

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	Ithaca, NY (McGowan #12)			Rock Springs, PA		
			1985-86 Ave.	Rank		1985-86 Ave.	Rank	
				(85)	(86)		(85)	(86)
1	Mohawk	NY	7.06	(13)	(15)	4.91	(2)	(16)
2	Oneida VR	NY	7.10	(14)	(9)	5.28	(1)	(6)
3	8302	NY	7.29	(7)	(12)	4.79	(15)	(10)
4	Excalibur	AW	7.43	(7)	(5)	5.31	(3)	(2)
5	NAPB 20	NAPB	7.56	(4)	(1)	5.15	(8)	(4)
6	NAPB 25	NAPB	7.37	(11)	(4)	5.36	(4)	(1)
7	G-2852	C/W	7.42	(5)	(8)	5.13	(10)	(3)
8	C/W 88	C/W	7.58	(1)	(3)	5.03	(11)	(9)
9	Futura	DLS	7.15	(12)	(14)	4.70	(14)	(13)
10	DS 410	DLS	7.40	(8)	(6)	5.01	(12)	(7)
11	DK 135	DK	7.37	(9)	(7)	4.95	(9)	(11)
12	Challenger	Cargill	7.25	(10)	(11)	5.11	(5)	(8)
13	Preserve	NK	7.21	(3)	(16)	4.67	(13)	(14)
14	WL 316	WL	7.55	(3)	(3)	5.16	(6)	(5)
15	Oneida	NY	6.91	(16)	(13)	4.50	(16)	(15)
16	Saranac AR	NY	7.24	(16)	(10)	4.92	(7)	(12)
Average			7.30			5.00		

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1984 NE Regional Alfalfa Trial - Series A
Location: McGowan Field #12, Ithaca, NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/2	7/14	8/25	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1985-86 Ave.
1	Mohawk	NY	3.37	1.73	1.41	6.51	6.46	7.65	7.06
2	Oneida VR	NY	3.37	1.82	1.63	6.82	6.72	7.48	7.10
3	8302	NY	3.39	1.80	1.47	6.65	6.59	7.99	7.29
4	Excalibur	AW	3.38	1.84	1.65	6.86	6.87	7.99	7.43
5	NAPB 20	NAPB	3.36	1.85	1.67	6.89	7.04	8.08	7.56
6	NAPB 25	NAPB	3.31	1.80	1.78	6.89	6.91	7.83	7.37
7	G-2852	C/W	3.30	1.82	1.70	6.83	6.82	8.01	7.42
8	C/W 88	C/W	3.39	1.86	1.71	6.96	6.99	8.16	7.58
9	Futura	DLS	3.32	1.74	1.50	6.56	6.57	7.72	7.15
10	DS 410	DLS	3.37	1.83	1.66	6.87	6.86	7.94	7.40
11	DK 135	DK	3.33	1.75	1.70	6.78	6.85	7.89	7.37
12	Challenger	Cargill	3.43	1.75	1.47	6.65	6.61	7.88	7.25
13	Preserve	NK	3.35	1.60	1.30	6.25	6.30	8.11	7.21
14	WL 316	WL	3.44	1.93	1.67	7.05	6.99	8.11	7.55
15	Oneida	NY	3.23	1.77	1.52	6.52	6.56	7.26	6.91
16	Saranac AR	NY	3.48	1.78	1.52	6.78	6.71	7.76	7.24
	Average		3.36	1.79	1.58	6.74	6.74	7.87	7.30
	F-entries		.23-	.83-	5.58**	.93-	1.09-	1.99*	
	LSD (P=.05)			.35	.23	.16	.60	.58	.50
	CV (%)		8.1	10.1	7.9	7.0	6.7	5.0	
							Lattice Efficiency	110%	143%

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1984 NE Regional Alfalfa Trial - Series A
Location: Rock Springs, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/22	6/27	8/6	1986 Season Total	1985 Adj. Total	1985-86 Ave.
1	Mohawk	NY	1.84	1.18	1.41	4.43	5.38	4.91
2	Oneida VR	NY	2.01	1.44	1.68	5.14	5.41	5.28
3	8302	NY	1.97	1.35	1.58	4.90	4.67	4.79
4	Excalibur	AW	2.11	1.52	1.66	5.29	5.32	5.31
5	NAPB 20	NAPB	1.88	1.59	1.72	5.18	5.11	5.15
6	NAPB 25	NAPB	1.98	1.64	1.87	5.50	5.21	5.36
7	G-2852	C/W	1.90	1.43	1.89	5.23	5.03	5.13
8	C/W 88	C/W	2.08	1.37	1.59	5.05	5.00	5.03
9	Futura	DLS	1.88	1.27	1.51	4.65	4.75	4.70
10	DS 410	DLS	1.94	1.50	1.64	5.08	4.94	5.01
11	DK 135	DK	1.90	1.41	1.50	4.81	5.09	4.95
12	Challenger	Cargill	2.03	1.33	1.70	5.06	5.16	5.11
13	Preserve	NK	1.96	1.02	1.58	4.56	4.77	4.67
14	WL 316	WL	1.97	1.47	1.72	5.16	5.15	5.16
15	Oneida	NY	1.84	1.24	1.40	4.48	4.51	4.50
16	Saranac AR	NY	2.01	1.24	1.46	4.70	5.13	4.92
	Average		1.96	1.38	1.62	4.95	5.04	5.00
	F-entries		.52-	9.19**	3.17**	4.09**	3.59**	
	LSD (P=.05)		.32	.15	.23	.44	.39	
	CV (%)		12.8	8.6	11.3	7.0	6.0	

Lattice Efficiency 112%

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1984 NE Regional Alfalfa Trial - Series B

1985-86 Summary

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	Ithaca, NY (McGowan #12)			Landisville, PA		
			1985-86 Ave.	Rank		1985-86 Ave.	Rank	
				(85)	(86)		(85)	(86)
1	Mohawk	NY	7.58	(13)	(10)	4.99	(7)	(9)
2	Oneida VR	NY	7.77	(8)	(6)	5.01	(5)	(9)
3	8302	NY	7.39	(14)	(16)	4.80	(6)	(16)
4	Excalibur	AW	7.84	(3)	(7)	4.84	(13)	(14)
5	Oneida	NY	7.56	(15)	(9)	4.91	(10)	(15)
6	Saranac AR	NY	7.63	(6)	(14)	4.92	(12)	(6)
7	(Sar. AR X Vert.)-VW ₂	NY	7.70	(4)	(12)	5.46	(1)	(5)
8	(Hon. AR X Vert.)-VW ₂	NY	7.65	(9)	(11)	5.02	(4)	(10)
9	NAPB 22	NAPB	7.82	(11)	(3)	4.85	(14)	(13)
10	C/W 339	C/W	7.68	(12)	(8)	5.16	(3)	(4)
11	DS 305	DLS	7.84	(5)	(4)	4.90	(11)	(13)
12	DS 409	DLS	8.02	(1)	(1)	5.26	(2)	(1)
13	Endure	Cargill	7.86	(10)	(2)	4.96	(8)	(13)
14	DK 120	DK	7.32	(16)	(13)	5.13	(10)	(2)
15	Cimmaron	GPR	7.51	(7)	(15)	4.80	(15)	(6)
16	Shenandoah	GPR	7.88	(2)	(5)	4.79	(16)	(3)
	Average		7.69			4.99		

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1984 NE Regional Alfalfa Trial - Series B
 Location: McGowan Field #12, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/2	7/14	8/25	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1985-86 Ave.
1	Mohawk	NY	3.48	1.89	1.53	6.90	6.90	8.26	7.58
2	Oneida VR	NY	3.53	1.92	1.72	7.17	7.11	8.43	7.77
3	8302	NY	3.33	1.70	1.48	6.51	6.52	8.25	7.39
4	Excalibur	AW	3.48	1.95	1.67	7.10	7.09	8.58	7.84
5	Oneida	NY	3.53	1.86	1.48	6.87	6.95	8.17	7.56
6	Saranac AR	NY	3.18	1.78	1.56	6.52	6.77	8.48	7.63
7	(Sar. AR X Vert.)-VW ₂	NY	3.35	1.79	1.68	6.82	6.87	8.52	7.70
8	(Hon. AR X Vert.)-VW ₂	NY	3.40	1.81	1.75	6.96	6.88	8.42	7.65
9	NAPB 22	NAPB	3.78	1.83	1.79	7.40	7.28	8.35	7.82
10	C/W 339	C/W	3.52	1.95	1.77	7.24	7.05	8.30	7.68
11	DS 305	DLS	3.63	1.96	1.72	7.31	7.19	8.49	7.84
12	DS 409	DLS	3.73	1.98	1.64	7.35	7.38	8.66	8.02
13	Endure	Cargill	3.65	1.91	1.83	7.38	7.31	8.41	7.86
14	DK 120	DK	3.41	1.78	1.53	6.71	6.81	7.83	7.32
15	Cimmaron	GPR	3.22	1.80	1.49	6.51	6.55	8.47	7.51
16	Shenandoah	GPR	3.35	2.03	1.68	7.07	7.15	8.60	7.88
	Average		3.47	1.87	1.64	6.99	6.99	8.39	7.69
	F-entries		1.66-	1.78-	6.34**	3.45**	3.69**	1.89*	
	LSD (P=.05)		.38	.19	.13	.48	.38	.42	
	CV (%)		8.5	8.2	6.3	5.4	4.2	3.9	

Lattice Efficiency 165% 148%

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1984 NE Regional Alfalfa Trial - Series B
Location: Landisville, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/29	7/3	8/12	1986 Season Total	1985 Season Total	1985-86 Ave.
1	Mohawk	NY	1.77	1.84	1.69	5.30	4.68	4.99
2	Oneida VR	NY	1.72	1.82	1.77	5.30	4.72	5.01
3	8302	NY	1.38	1.84	1.69	4.91	4.69	4.80
4	Excalibur	AW	1.61	1.90	1.72	5.22	4.46	4.84
5	Oneida	NY	1.62	1.92	1.66	5.20	4.62	4.91
6	Saranac AR	NY	1.71	1.99	1.63	5.33	4.51	4.92
7	(Sar. AR X Vert.)-VW ₂	NY	1.93	1.89	1.67	5.49	5.43	5.46
8	(Hon. AR X Vert.)-VW ₂	NY	1.85	1.67	1.73	5.25	4.79	5.02
9	NAPB 22	NAPB	1.80	1.73	1.72	5.25	4.44	4.85
10	C/W 339	C/W	1.74	1.99	1.77	5.50	4.81	5.16
11	DS 305	DLS	1.74	1.87	1.64	5.25	4.54	4.90
12	DS 409	DLS	1.98	1.84	1.84	5.66	4.85	5.26
13	Endure	Cargill	1.80	1.68	1.77	5.25	4.67	4.96
14	DK 120	DK	1.85	2.04	1.74	5.63	4.62	5.13
15	Cimmaron	GPR	1.74	1.80	1.85	5.39	4.20	4.80
16	Shenandoah	GPR	1.98	1.88	1.69	5.55	4.03	4.79
	Average		1.76	1.86	1.72	5.34	4.63	4.99
	F-entries		1.99*	1.40-	.70-	1.81-	3.99**	
	LSD (P=.05)		.30	.25	.22	.40	.43	
	CV (%)		13.5	10.6	10.0	5.9	7.4	

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1985 NE Regional Alfalfa Trial
 Location: McGowan Field #13, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/3	7/15	8/26	1986 Season Total	1986 Adj. Total
1	Sparta	Land O'Lakes	3.68	1.87	2.04	7.59	7.48
2	LS-C21	Lovelock	3.74	1.83	2.19	7.76	7.68
3	C/W 349	C/W	4.01	2.09	2.26	8.36	8.23
4	C/W 334	C/W	3.70	2.00	2.32	8.02	7.89
5	NAPB 32	NAPB	3.85	1.97	2.30	8.13	8.02
6	Commandor	NK	3.66	1.80	2.11	7.58	7.67
7	ICO-7	Lovelock	3.84	2.18	1.92	7.94	7.93
8	ICB-31	Lovelock	3.83	2.13	2.09	8.06	8.10
9	Oneida VR	NY	3.86	1.93	2.05	7.83	7.96
10	8412	NY	3.81	1.97	2.15	7.93	7.96
11	8413	NY	3.98	1.96	2.16	8.10	8.12
12	Exp. 83631	NK (Pride)	3.89	2.01	2.29	8.19	7.92
13	Mohawk	NY	3.66	1.90	2.17	7.73	7.80
14	MPDR III	FFR	3.72	1.99	2.17	7.87	7.96
15	Saranac AR	NY	3.36	1.90	2.05	7.32	7.57
16	Oneida	NY	3.49	1.81	1.96	7.26	7.38
	Average		3.76	1.96	2.14	7.85	7.85
	F-entries		2.20*	6.45**	3.10**	3.60**	6.36**
	LSD (P=.05)		.32	.12	.19	.46	.27
	CV (%)		6.7	5.0	7.0	4.6	2.7

Lattice Efficiency 288%

Note: Verticillium symptoms evident on border plots of Multileaf in Harvest 3.

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1985 NE Regional Alfalfa Trial
 Location: Rock Springs, PA 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/27	6/30	8/5	1986 Season Total	1986 Adj. Total
1	Sparta	Land O'Lakes	1.95	1.82	1.36	5.13	5.09
2	LS-C21	Lovelock	2.05	1.33	1.40	4.78	4.76
3	C/W 349	C/W	1.86	1.68	1.19	4.73	4.75
4	C/W 334	C/W	2.14	1.64	1.40	5.19	5.08
5	NAPB 32	NAPB	1.92	1.89	1.45	5.26	5.20
6	Commandor	NK	1.96	1.51	1.39	4.86	4.79
7	ICO-7	Lovelock	1.90	1.76	1.38	5.04	5.21
8	ICB-31	Lovelock	1.92	1.82	1.40	5.15	5.10
9	Oneida VR	NY	1.88	1.64	1.57	5.09	5.16
10	8412	NY	1.91	1.71	1.62	5.25	5.22
11	8413	NY	1.89	1.69	1.63	5.22	5.30
12	Exp. 83631	NK (Pride)	1.90	1.76	1.40	5.05	4.97
13	Mohawk	NY	1.95	1.64	1.59	5.18	5.30
14	MPDR III	FFR	1.84	1.65	1.45	4.94	4.98
15	Saranac AR	NY	2.04	1.61	1.50	5.15	5.16
16	Oneida	NY	1.92	1.85	1.61	5.39	5.31
	Average		1.94	1.69	1.46	5.09	5.09
	F-entries		.29-	4.92**	4.55**	1.15-	1.59-
	LSD (P=.05)		.41	.18	.16	.48	.42
	CV (%)		16.8	8.3	8.7	7.4	6.6

Lattice Efficiency

128%

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1986 NE Regional Alfalfa Trial - Series A
Location: Ketola Field #2, Ithaca, NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	8/21 (Total Season)	Adj. Total
1	Centurion	C/W	1.30	1.28
2	NY 86-5	NY	1.29	1.29
3	NY 86-6	NY	1.28	1.30
4	NY 8412	NY	1.28	1.30
5	Oneida VR	NY	1.26	1.27
6	Oneida	NY	1.31	1.29
7	Saranac AR	NY	1.34	1.32
8	Saranac	NY	1.25	1.27
9	NY 8413	NY	1.28	1.29
10	LOL 7890	LOL	1.30	1.30
11	LOL 3510	LOL	1.41	1.37
12	CW 423	C/W	1.30	1.35
13	CW 440	C/W	1.42	1.42
14	NK 83631	NK	1.30	1.27
15	LS F-23	Lovelock	1.26	1.25
16	Sparta	LOL	1.39	1.39
	Average		1.31	1.31
	F-entries		1.66-	.18-
	LSD (P=.05)		.12	.10
	CV (%)		7.1	6.1
	Lattice Efficiency			138%

Note: Trial clipped in early July - no yield taken due to weeds.

Disease Effects Trials

A series of trials was started in 1982 to check effects of major alfalfa diseases on production and to indicate necessary levels of disease resistance for protection under field conditions. These began when Verticillium wilt was first appearing in New York and crash breeding programs started turning out varieties with varying levels of resistance to Verticillium and other major diseases. Trials were established in 1982 and 1983 on two sites which were among the first to have Verticillium identified in N.Y. Three full years of forage production have been measured at both of these locations. The results have helped to clarify expected performance from both resistant and susceptible strains where Verticillium is present in this climatic zone.

An additional trial was started in 1985 at an Ithaca site with applied inoculum to give further evidence on necessary levels of variety resistance.

Trials of similar nature have been conducted at various times for the effects of Phytophthora resistance. These have been located on sites with known drainage problems where Phytophthora symptoms have been observed in wet seasons. Two trials of this nature are currently in progress. Overall results on assessing damage effects from this disease have been disappointing. Poor drainage sites often create establishment and production difficulties exclusive of Phytophthora effects. Also Phytophthora tends to show up only under unusually wet conditions, and quite often disease damage effects are overcome by plant recovery when growing conditions return to normal. Occasionally rather dramatic visual spot differences in Phytophthora damage effects for resistant and susceptible strains have been observed, but for more than a decade these have never resulted in any significant yield differences for trial means. The chances of demonstrating effects on yield from this disease are very low.

A trial was started in 1985 to indicate damage effects from Anthracnose. Symptoms of this disease show occasionally at this location, but generally this is outside the climate zone of this disease. A hot dry site was selected and disease inoculum applied. Results in 1986 showed very limited disease effects.

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1982 Verticillium Trial
Location: Erie County, NY 1985 Data
(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/29	7/11	8/22	1985 Season Total	1985 Rank	1984 Season Total	1984 Rank	1983 Season Total	1983 Rank	1983-85 Ave.
1	Saranac AR	NY	1.89	.82	.59	3.31	14	5.69	15	6.42	6	5.14
2	Arc	USDA	1.87	.80	.62	3.29	15	5.79	11	6.16	10	5.08
3	Vertus	-----	2.00	1.31	1.05	4.37	11	6.03	4	6.63	1	5.68
4	Vernema	Wash.	2.16	1.22	1.04	4.43	8	6.02	5	6.52	4	5.66
5	Trumpetor	(NK)	2.30	1.25	1.04	4.60	7	5.94	8	6.50	5	5.68
6	WL 316	(WL)	2.26	1.34	1.15	4.75	4	5.84	10	6.35	7	5.65
7	Excalibur	(AW)	2.31	1.30	1.04	4.65	6	6.09	2	6.52	3	5.75
8	8015	(C/W)	2.21	1.39	1.15	4.75	5	5.94	7	6.30	8	5.66
9	CW 141	(C/W)	2.46	1.36	1.09	4.91	3	6.10	1	6.62	2	5.88
10	Apollo II	(NAPB)	2.11	1.25	1.05	4.42	9	6.07	3	5.91	14	5.47
11	NAPB 108	(NAPB)	2.48	1.43	1.17	5.08	1	5.74	12	6.18	9	5.67
12	NAPB 110	(NAPB)	2.09	1.23	1.08	4.40	10	5.93	9	5.92	13	5.42
13	Oneida	NY	1.95	1.01	.99	3.96	13	5.70	14	5.85	15	5.17
14	Agway E-20	(AW)	2.35	1.47	1.24	5.05	2	5.98	6	6.11	11	5.71
15	SW 79-1	(SW)	2.00	1.06	1.05	4.11	12	5.74	13	5.93	12	5.26
	Average		2.16	1.22	1.02	4.40		5.91		6.26		5.52
	F-entries		2.56**	7.70**	8.52**	6.71**		.97-		1.98*		
	LSD (P=.05)		.35	.21	.18	.60		.42		.55		
	CV (%)		12.6	13.6	13.7	10.7		5.6		7.0		

Note: Verticillium wilt symptoms observed in the 2nd and third harvest of 1985. Differences among resistant and susceptible entries were obvious.

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FORAGE YIELD COMPARISONS OF VW-RESISTANT VS. SUSCEPTIBLE ALFALFA VARIETIES ON A VW-INFESTED SITE IN ERIE COUNTY (SIMONS FARM)

Year	Average of Res. Varieties	Average of Susc. Varieties	Difference	% Diff.
-----Tons/Acre @ 12% Moisture-----				
1983	6.29	6.14	0.15	2.4
1984	5.95	5.73	0.22	3.8
1985	4.63	3.52	1.11	31.5

1985/Harvest 1	2.23	1.90	0.33	17.4
1985/Harvest 2	1.30	0.88	0.42	47.7
1985/Harvest 3	1.10	0.73	0.37	50.7

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1982 Verticillium Trial
Location: Erie County, NY 1985 Data
(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	5/29	7/11	8/22	1985 Season Total	1985 Rank	1984 Season Total	1984 Rank	1983 Season Total	1983 Rank	1983-85 Ave.
1	Saranac AR	NY	1.89	.82	.59	3.31	14	5.69	15	6.42	6	5.14
2	Arc	USDA	1.87	.80	.62	3.29	15	5.79	11	6.16	10	5.08
3	Vertus	-----	2.00	1.31	1.05	4.37	11	6.03	4	6.63	1	5.68
4	Vernema	Wash.	2.16	1.22	1.04	4.43	8	6.02	5	6.52	4	5.66
5	Trumpetor	(NK)	2.30	1.25	1.04	4.60	7	5.94	8	6.50	5	5.68
6	WL 316	(WL)	2.26	1.34	1.15	4.75	4	5.84	10	6.35	7	5.65
7	Excalibur	(AW)	2.31	1.30	1.04	4.65	6	6.09	2	6.52	3	5.75
8	8015	(C/W)	2.21	1.39	1.15	4.75	5	5.94	7	6.30	8	5.66
9	CW 141	(C/W)	2.46	1.36	1.09	4.91	3	6.10	1	6.62	2	5.88
10	Apollo II	(NAPB)	2.11	1.25	1.05	4.42	9	6.07	3	5.91	14	5.47
11	NAPB 108	(NAPB)	2.48	1.43	1.17	5.08	1	5.74	12	6.18	9	5.67
12	NAPB 110	(NAPB)	2.09	1.23	1.08	4.40	10	5.93	9	5.92	13	5.42
13	Oneida	NY	1.95	1.01	.99	3.96	13	5.70	14	5.85	15	5.17
14	Agway E-20	(AW)	2.35	1.47	1.24	5.05	2	5.98	6	6.11	11	5.71
15	SW 79-1	(SW)	2.00	1.06	1.05	4.11	12	5.74	13	5.93	12	5.26
	Average		2.16	1.22	1.02	4.40		5.91		6.26		5.52
	F-entries		2.56**	7.70**	8.52**	6.71**		.97-		1.98*		
	LSD (P=.05)		.35	.21	.18	.60		.42		.55		
	CV (%)		12.6	13.6	13.7	10.7		5.6		7.0		

Note: Verticillium wilt symptoms observed in the 2nd and third harvest of 1985. Differences among resistant and susceptible entries were obvious.

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1983 Verticillium Wilt Trial
Location: Fuest-McCormick Farm, Wyoming Co., NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/17	7/29	9/10	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1984-86 Ave.
1	Vertus	----	2.06	1.47	1.04	4.56	4.64	5.22	5.52	5.13
2	Maris Kabul	----	2.14	1.61	1.12	4.87	5.01	5.24	5.46	5.24
3	Ca 744	WL	2.44	1.48	1.00	4.92	5.19	5.72	5.58	5.50
4	78 W-1	WL	2.29	1.50	1.26	5.05	5.11	5.42	5.31	5.28
5	WL 316	WL	2.61	1.58	1.28	5.48	5.23	5.61	5.28	5.37
6	Apollo II	NAPB	2.34	1.65	1.22	5.21	5.34	5.54	5.44	5.44
7	NAPB 108	NAPB	2.58	1.62	1.34	5.53	5.39	5.27	5.61	5.42
8	NAPB 110	NAPB	2.42	1.62	1.27	5.31	5.16	5.43	5.26	5.28
9	C/W 211	C/W	2.30	1.57	1.23	5.09	5.07	5.67	5.50	5.41
10	Action	C/W	2.51	1.57	1.29	5.37	5.24	5.71	5.59	5.51
11	Summit	C/W	2.33	1.55	1.26	5.15	4.98	5.59	5.76	5.44
12	Trumpetor	NK	2.69	1.51	1.11	5.31	5.21	4.98	5.33	5.17
13	Excalibur	AW	2.50	1.56	1.19	5.25	5.09	5.76	5.44	5.43
14	(Flamande X Iroq.) - VW ₂	NY	2.27	1.51	1.06	4.83	5.03	5.62	5.17	5.27
15	Oneida VR-Syn. 1	NY	2.46	1.55	1.17	5.17	5.32	5.63	5.56	5.50
16	Oneida	NY	2.45	1.46	1.17	5.08	5.16	5.26	5.23	5.22
	Average		2.40	1.55	1.19	5.14	5.14	5.48	5.44	5.35
	F-entries		1.09-	1.11-	2.15*	1.36-	1.42-	2.83**	4.16**	
	LSD (P=.05)		.45	.15	.19	.61	.43	.38	.23	
	CV (%)		14.9	7.8	12.8	9.4	6.5	5.5	3.3	

Lattice Efficiency 209% 226% 300%

Notes: This trial established on field site of one of earliest verified locations for Verticillium wilt damage in N.Y. State. An alfalfa stand of about 3 years duration was completely destroyed. This trial was established after 1 year in corn. No visible Verticillium symptoms were observed until harvest three of the 3rd full production year. Inoculum surviving from a very heavy infestation into the next rotation of alfalfa must have been very slight since the disease had little effect on three full years production.

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1984 Alfalfa Trial - Phytophthora Site
 Location: Aurora, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/16	7/28	9/9	1986	1986	1985	1985-86 Ave.
						Season Total	Adj. Total	Season Total (2 Hvsts.)	
1	Iroquois	NY	2.88	1.91	1.00	5.80	5.73	3.40	4.57
2	Oneida	NY	2.55	1.80	1.06	5.40	5.41	3.34	4.38
3	Oneida VR	NY	2.60	1.83	1.02	5.46	5.56	3.40	4.48
4	Mich. 80-16	-----	2.70	1.85	.91	5.46	5.49	3.07	4.28
5	Excalibur	AW	2.65	1.84	.85	5.35	5.35	3.25	4.30
6	Apollo II	NAPB	2.48	1.87	1.00	5.35	5.64	3.24	4.44
7	Mohawk	NY	2.34	1.66	.84	4.84	4.88	3.24	4.06
8	8302	NY	2.57	1.86	.85	5.28	5.21	3.24	4.23
9	Primal	NK	2.65	1.83	.91	5.39	5.53	2.92	4.23
10	Decathlon	Carg.	2.48	1.83	.90	5.21	5.35	3.27	4.31
11	Preserve	NK	2.68	1.87	.92	5.46	5.43	3.67	4.55
12	DeKalb 135	DK	2.80	1.90	.99	5.69	5.61	3.54	4.58
13	Iroquois AR	NY	2.76	1.79	.95	5.50	5.30	3.45	4.38
14	(Sar. AR X Vertus)VW ₂	-----	2.73	1.93	.99	5.65	5.49	3.79	4.64
15	[(Fl. X Iroq. ₂) X Vert.]-VW ₂	-----	2.58	1.70	.83	5.10	5.03	3.13	4.08
16	(Hon. AR X Vert.)-VW ₂	-----	2.71	1.71	.89	5.31	5.24	3.49	4.37
	Average		2.64	1.82	.93	5.39	5.39	3.34	4.37
	F-entries		1.14-	1.23-	1.45-	1.28-	1.95*	1.78	
	LSD (P=.05)		.36	.20	.17	.58	.46	.47	
	CV (%)		10.8	8.5	14.3	8.4	6.7	9.9	
	Lattice Efficiency						159%		

- Notes: 1. Trial placed in area where drainage conditions have produced Phytophthora damage in wet seasons of past years. Other aspects of imperfect drainage often influence establishment.
2. Only 2 harvests in 1985. Trial showed good recovery in 1986 season after poor performance in 1985. Reps. 4 and 5 were still weak.
3. No visible evidence of Phytophthora symptoms have been observed.

КОДЫ:

АВТ

20 (80)

130

5-001

НАЗНАЧ:

75 [УЧЕТ ВК В СЕГ. 11-105]
12 [УЧЕТ В СЕГ. 11-105]
10 [УЧЕТ В СЕГ. 11-105]
12 [УЧЕТ В СЕГ. 11-105]

75 [УЧЕТ В СЕГ. 11-105]
10 [УЧЕТ В СЕГ. 11-105]
70 [УЧЕТ В СЕГ. 11-105]
8 [УЧЕТ В СЕГ. 11-105]

6 [УЧЕТ В СЕГ. 11-105]
2 [УЧЕТ В СЕГ. 11-105]
6 [УЧЕТ В СЕГ. 11-105]
8 [УЧЕТ В СЕГ. 11-105]

СЛ

ВА 5
ВА 5
ВА 5
ВА 5

5 00
2 00
8 00
5 00

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1985 Anthracnose Trial - Low Inoculation Level
 Location: West Lamkin Field (Bench), Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	NY Lot #				1986 Season
			6/10	7/24	9/8	Total
1	8412	85-3	2.80	2.08	2.04	6.92
2	8413	85-4	2.79	2.11	1.92	6.82
3	Mohawk	85-9	2.55	2.08	2.04	6.66
4	Arc	79-66&78-47	2.61	2.06	2.03	6.71
5	Saranac AR	85-64	2.69	2.12	2.01	6.82
6	Oneida VR	85-1	2.82	2.13	2.04	6.98
7	Apollo II	85-45	2.86	2.05	2.03	6.93
8	8411	85-5	2.71	2.08	1.95	6.74
9	Epic	85-32	2.70	2.00	1.92	6.62
10	Saranac	85-63	2.71	1.96	1.96	6.63
11	Oneida	85-61	2.64	2.02	1.92	6.58
	Average		2.72	2.06	1.99	6.77
	F-entries		1.93-	.83-	.92-	1.18-
	LSD (P=.05)		.19	.16	.16	.36
	CV (%)		6.2	6.8	6.8	4.6

- Notes: 1. No anthracnose symptoms observed in 1986 on two inoculation levels for the set of entries.
2. The location is very gravelly and excessively drained - ideal for anthracnose to take off. Some unusual foliage symptoms were observed but were not typical of anthracnose. Obviously had zero effects on average yields in a favorable season for the site.

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1985 Anthracnose Trial - High Inoculation Level
 Location: West Lamkin Field (Bench), Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	NY Lot #	6/10	7/24	9/8	1986 Season Total
1	8412	85-3	2.61	2.02	2.22	6.84
2	8413	85-4	2.63	2.07	2.05	6.75
3	Mohawk	85-9	2.71	1.98	2.14	6.83
4	Arc	79-66&78-47	2.66	1.92	2.10	6.68
5	Saranac AR	85-64	2.49	1.93	2.14	6.56
6	Oneida VR	85-1	2.51	1.90	2.16	6.57
7	Apollo II	85-45	2.77	1.97	2.14	6.87
8	8411	85-5	2.60	2.02	2.10	6.72
9	Epic	85-32	2.63	1.97	2.08	6.68
10	Saranac	85-63	2.58	1.97	2.15	6.70
11	Oneida	85-61	2.57	1.90	2.00	6.47
	Average		2.61	1.97	2.11	6.70
	F-entries		.97-	1.05-	.82-	.68-
	LSD (P=.05)		.23	.15	.19	.43
	CV (%)		7.7	6.4	7.6	5.6

Note: No anthracnose symptoms observed in 1986.

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1985 Verticillium Wilt Trial
Location: New Ketola Field #7, Ithaca, NY
(Yield - Tons/Acre @ 12% M)

1986 Data

Rand. No.	Entry	Source	6/5	7/17	8/29	1986 Season Total	1986 Adj. Total
1	Oneida VR	NY	2.94	1.59	1.59	6.12	6.11
2	8412	NY	2.94	1.47	1.61	6.03	6.06
3	8413	NY	2.85	1.46	1.67	5.98	5.98
4	5432	Pioneer	2.64	1.48	1.56	5.68	5.67
5	Arrow	AgriPro	2.77	1.43	1.66	5.86	5.87
6	Endure	PAG	2.80	1.53	1.52	5.85	5.93
7	Excalibur	Agway	3.03	1.66	1.68	6.37	6.32
8	Apollo II	AgriPro	2.80	1.47	1.53	5.80	5.89
9	WL 316	WL	2.76	1.55	1.49	5.79	5.70
10	Trumpetor	NK	2.80	1.43	1.37	5.61	5.60
11	Decathlon	Cargill	2.58	1.32	1.40	5.30	5.28
12	Shenandoah	GPR	2.74	1.49	1.42	5.65	5.57
13	Iroquois	NY	2.75	1.50	1.26	5.51	5.53
14	Oneida	NY	2.63	1.38	1.37	5.38	5.44
15	Saranac	NY	2.56	1.26	.97	4.79	4.78
16	Saranac AR	NY	2.74	1.38	1.26	5.39	5.34
	Average		2.77	1.46	1.46	5.69	5.69
	F-entries		1.84*	4.41**	10.10**	10.56**	13.46**
	LSD (P=.05)		.27	.13	.17	.33	.29
	CV (%)		7.7	7.2	9.1	4.5	4.0

Lattice Efficiency 125%

- Notes: 1. Harvest 1 on 6/5 and 6/6 (rain). Verticillium symptoms evident in Harvest 2, severe in Harvest 3.
2. Inoculation was by soaking seed in a spore suspension of Verticillium albo-atrum before planting.

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partial production evaluation for any
entry. The data are intended as pre-
liminary information only for trial
participants and reproduction of the
data table or any portion thereof for
advertising use is prohibited.

1985 VW TRIAL - SEED INOCULATED WITH V.a.a.

VARIETY	RES. LEVEL	1986 YIELD - T/A @ 12% M.	
		PER VARIETY	PER RES. LEVEL
ONEIDA VR	HR	6.11	5.96
NY 8412	HR	6.06	
NY 8413	HR	5.98	
5432	HR	5.67	
ARROW	R	5.89	5.96
ENDURE	R	5.93	
EXCALIBUR	R	6.32	
WL 316	R	5.70	
APOLLO II	MR	5.89	5.59
TRUMPETOR	MR	5.60	
DECATHLON	MR	5.28	
SHENANDOAH	LR	5.57	5.33
IROQUOIS	S	5.53	
ONEIDA	S	5.44	
SARANAC	S	4.78	
SARANAC AR	S	5.34	
LSD .05		.29	

VW SYMPTOMS EVIDENT IN HARVEST 2, SEVERE IN HARVEST 3.

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1986 Alfalfa Trial - Wet Site
 Location: New Ketola Field, Ithaca, NY 1986 Data
 (Yield Tons/Acre @ 12% M)

Rand. No.	Entry	NY Lot #	8/4 (Total Season)	Adj. Total
1	Iroquois	86-12	2.02	2.10
2	Mich. 80-16	86-50	2.23	2.20
3	(Mich. 80-16)-P	86-42	2.40	2.30
4	(Mich. 80-16)-PCA ₅	86-41	2.43	2.40
5	8504	86-43	1.96	1.95
6	Oneida	86-11	2.37	2.35
7	Oneida + Apron	86-44	2.31	2.32
8	Oneida R ₄	86-2	2.27	2.23
9	NY 8412	86-17	2.29	2.34
10	NY 8412 + Apron	86-48	2.17	2.15
11	Oneida VR	86-15	2.25	2.25
12	Oneida VR + Apron	86-47	2.21	2.31
13	Saranac AR	86-16	2.33	2.35
14	Saranac AR-P _A R ₄	86-4	2.34	2.42
15	R ₃ -R ₄	86-3	2.33	2.31
16	NY 8413	86-13	2.41	2.35
	Average		2.27	2.27
	F-entries		1.38-	1.56-
	LSD (P=.05)		.32	.28
	CV (%)		11.0	9.7
		Lattice Efficiency		129%

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1982 Local Entry Alfalfa Trial
 Location: Ketola Field #1, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	NY Lot #	6/20	7/31	9/12	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1983 Adj. Total	1983-86 Ave.
1	Pop. A	81-33	2.59	2.23	1.12	5.93	6.09	4.93	6.71	5.32	5.76
2	Pop. B	81-34	2.93	2.23	1.18	6.34	6.19	5.10	6.45	5.22	5.74
3	Pop. C	81-35	2.77	2.16	.95	5.88	5.99	4.97	6.38	5.27	5.65
4	Pop. D	81-36	2.81	2.40	1.00	6.21	6.08	4.75	6.09	4.98	5.47
5	Pop. E	81-37	2.58	2.25	1.16	5.99	6.08	4.88	6.46	5.17	5.65
6	Syn. C-NY (old)	74-29	2.68	2.09	.90	5.67	5.85	4.85	5.98	5.15	5.46
7	Syn. C-NY (new)	82-40	2.95	2.25	1.03	6.23	6.08	4.75	6.20	5.22	5.56
8	Multileaf	81-28	2.33	2.13	1.07	5.53	5.62	4.49	5.96	4.62	5.17
9	Oneida	82-25	2.61	2.31	1.15	6.07	6.01	4.74	6.38	5.03	5.54
10	Saranac AR	82-28	2.48	2.13	1.04	5.66	5.67	4.71	6.01	5.01	5.35
11	Reselect Saranac	79-21	3.09	2.36	1.12	6.57	6.23	4.84	6.33	5.06	5.62
12	Saranac	82-38	2.56	2.05	.99	5.60	5.93	4.91	6.44	5.18	5.62
13	Honeoye AR ₃	81-38	2.75	1.98	.97	5.70	5.62	4.51	5.86	4.87	5.22
14	Honeoye	82-27	2.62	2.21	1.01	5.83	5.91	4.83	6.14	5.06	5.48
15	BAP Syn.	82-33	2.67	2.32	1.22	6.22	6.25	4.89	6.40	5.16	5.67
16	Iroquois	82-26	3.13	2.19	.94	6.25	6.07	4.77	6.14	5.21	5.55
	Average		2.72	2.21	1.05	5.98	5.98	4.81	6.25	5.09	5.53
	F-entries		2.05*	2.46**	2.68**	1.97*	2.14*	2.06*	5.41**	2.46**	
	LSD (P=.05)		.43	.20	.16	.61	.39	.31	.28	.29	
	CV (%)		12.5	7.3	12.4	8.1	5.2	5.1	3.6	4.6	
	Lattice Efficiency						247%	140%	143%	147%	

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3. In 1986, frequent rainfall provided abundant water on this shallow soil resulting in good fourth production year yields.

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1983 Extra Entry Alfalfa Trial
 Location: Snyder Field #20, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	NY Lot #	6/9	7/24	9/8	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1984 Adj. Total	1984-86 Ave.
1	Preserve (NK)	83-20	3.02	1.70	1.26	5.98	6.09	6.59	6.31	6.33
2	Polar II (NK)	83-21	2.93	1.83	1.49	6.26	6.37	6.18	6.18	6.24
3	Primal (NK)	83-22	3.47	1.87	1.34	6.68	6.63	6.40	6.46	6.50
4	Trumpetor (NK)	83-19	3.43	1.84	1.58	6.84	6.58	6.13	6.10	6.27
5	Reselect Saranac	83-7	3.38	2.02	1.56	6.96	6.85	6.30	6.53	6.56
6	Excalibur	82-6	3.41	1.84	1.71	6.95	7.24	6.55	6.45	6.75
7	Agway E-20	82-36	3.35	1.91	1.82	7.08	6.79	6.43	6.22	6.48
8	Mich. 80-16	82-42	3.28	1.76	1.34	6.37	6.28	6.33	6.24	6.28
9	Oneida	83-13	3.51	1.92	1.62	7.04	6.74	6.13	6.21	6.36
10	Iroquois	83-15	3.02	1.72	1.17	5.91	6.04	6.03	6.12	6.06
11	Maris Kabul	83-1	2.40	1.18	.81	4.39	4.64	5.92	6.15	5.57
12	Vertus	81-1	3.19	1.59	1.23	6.01	5.84	6.11	6.34	6.10
13	Apica (Can.)	82-41	3.07	1.67	1.24	5.98	6.40	6.33	6.43	6.39
14	(4x USSR) X Sar. or Iroq.	-----	3.04	1.85	1.43	6.32	6.10	5.80	5.76	5.89
15	Quality Checks-Cycle 2 (Syn. 2)	83-8	3.06	1.80	1.45	6.32	6.40	6.21	6.12	6.24
16	Saranac	83-12	3.10	1.68	1.26	6.04	6.15	6.41	6.37	6.31
	Average		3.17	1.76	1.39	6.32	6.32	6.24	6.25	6.27
	F-entries		2.45**	4.07**	5.23**	4.32**	6.07**	3.12**	4.20**	
	LSD (P=.05)		.50	.27	.30	.90	.66	.35	.26	
	CV (%)		12.5	12.0	17.0	11.3	8.2	4.4	3.3	
	Lattice Efficiency						188%	218%	170%	

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3. Some stand damage evident in Harvest 1 of 1986, e.g., BW on entries 11 and 12.

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1984 North Country Alfalfa Trial
Location: Chazy, NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/12	7/23	9/4	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1985-86 Ave.
1	Oneida VR	NY	2.64	2.10	1.40	6.14	6.31	5.32	5.82
2	Vertus	-----	2.33	1.98	1.28	5.59	5.48	5.05	5.27
3	(Sar. AR X Vertus)-VW ₂	NY	2.67	2.16	1.40	6.23	6.23	5.10	5.67
4	[(Flam. X Iroq. ₂) X Vertus]-VW ₂	NY	2.67	2.03	1.43	6.14	6.09	5.39	5.74
5	(Honeoye AR X Vertus)-VW ₂	NY	2.74	2.08	1.35	6.16	6.02	5.43	5.73
6	EXcalibur	AW	2.48	2.01	1.50	5.99	6.06	5.25	5.66
7	Apollo II	NAPB	2.59	2.30	1.37	6.25	6.32	5.60	5.96
8	G-2852	C/W	2.55	1.92	1.46	5.93	6.20	5.26	5.73
9	(Flam. X AR) X AR	NY	2.49	2.01	1.22	5.72	5.89	5.29	5.59
10	Reselect Saranac	NY	2.48	2.32	1.57	6.37	6.14	4.89	5.52
11	Oneida	NY	2.68	2.11	1.52	6.32	6.27	5.39	5.83
12	Mohawk	NY	2.49	1.90	1.32	5.71	5.92	5.37	5.65
13	Mich. 80-16	Mich.	2.64	2.06	1.57	6.27	6.23	5.94	6.09
14	Advantage	DK	2.76	2.11	1.45	6.33	6.23	5.19	5.71
15	Magnum	DLS	2.70	2.08	1.46	6.23	6.10	5.47	5.79
16	Polar II	NK	2.44	2.13	1.36	5.93	5.79	5.11	5.45
	Average		2.58	2.08	1.42	6.08	6.08	5.32	5.70
	F-entries		1.42-	.94-	1.45-	1.24-	1.87-	1.43-	
	LSD (P=.05)		.29	.33	.23	.62	.46	.58	
	CV (%)		8.8	12.6	13.0	8.0	6.0	8.5	
			Lattice Efficiency				181%	314%	

Note: Plots in Reps. 1-3 that suffered from winter injury in 1985 showed good recovery in the 1986 growing season.

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1984 North Country Alfalfa Trial
Location: Canton, NY 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/4	7/16	8/27	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1985-86 Ave.
1	Oneida VR	NY	2.03	1.58	1.60	5.21	5.14	4.54	4.84
2	Vertus	---	1.85	1.44	1.34	4.63	4.68	4.06	4.37
3	(Sar. AR X Vertus)-VW ₂	NY	1.92	1.46	1.45	4.83	4.79	4.34	4.57
4	[(Flam. X Iroq. ₂) X Vertus]-VW ₂	NY	1.95	1.48	1.48	4.91	4.95	4.49	4.72
5	(Honeoye AR X Vertus)-VW ₂	NY	2.05	1.52	1.46	5.03	4.80	4.39	4.60
6	EXcalibur	AW	2.00	1.61	1.60	5.20	5.15	4.54	4.85
7	Apollo II	NAPB	1.76	1.53	1.57	4.86	4.84	4.27	4.56
8	G-2852	C/W	2.00	1.64	1.49	5.13	4.92	4.59	4.76
9	(Flam. X AR) X AR	NY	1.86	1.54	1.42	4.81	4.87	4.32	4.60
10	Reselect Saranac	NY	1.90	1.53	1.52	4.96	4.92	4.25	4.59
11	Oneida	NY	2.02	1.55	1.54	5.11	5.13	4.63	4.88
12	Mohawk	NY	1.98	1.57	1.39	4.94	4.93	4.43	4.68
13	Mich. 80-16	Mich.	2.00	1.45	1.46	4.91	4.96	4.37	4.67
14	Advantage	DK	1.93	1.42	1.39	4.74	4.86	4.37	4.62
15	Magnum	DLS	1.89	1.54	1.49	4.93	5.11	4.56	4.84
16	Polar II	NK	1.85	1.50	1.39	4.75	4.88	4.42	4.65
	Average		1.94	1.52	1.47	4.93	4.93	4.41	4.67
	F-entries		1.68-	1.31-	1.14-	1.03-	1.21-	1.45-	
	LSD (P=.05)		.18	.15	.21	.47	.36	.35	
	CV (%)		7.1	8.0	11.1	7.5	5.7	6.2	

Lattice Efficiency 176% 134%

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1984 Extra Entry Alfalfa Trial
Location: McGowan Field #12, Ithaca, NY 1986 Data
(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/2	7/14	8/25	1986 Season Total	1986 Adj. Total	1985 Adj. Total	1985-86 Ave.
1	NAPB 20	NAPB	3.35	1.69	1.67	6.71	6.68	6.50	6.59
2	NAPB 22	NAPB	3.37	1.67	1.70	6.74	6.75	6.60	6.68
3	NAPB 25	NAPB	3.46	1.58	1.68	6.72	6.74	6.51	6.63
4	Edge	C/W	3.29	1.72	1.60	6.61	6.66	7.04	6.85
5	G-2852	C/W	3.22	1.80	1.60	6.63	6.62	6.80	6.71
6	C/W 339	C/W	3.17	1.66	1.74	6.56	6.62	6.79	6.71
7	82504	NK	3.18	1.68	1.61	6.48	6.49	6.42	6.46
8	83589	NK	3.20	1.68	1.65	6.52	6.48	6.63	6.56
9	Polar II	NK	3.00	1.69	1.39	6.08	6.09	6.32	6.21
10	Decathlon	Cargill	3.37	1.71	1.53	6.62	6.52	6.71	6.62
11	DK-120	DK	3.00	1.66	1.50	6.16	6.16	6.18	6.17
12	C/W 88	C/W	3.30	1.71	1.60	6.60	6.56	6.71	6.64
13	Oneida VR	NY	3.24	1.64	1.55	6.43	6.49	6.69	6.59
14	8302	NY	3.15	1.74	1.66	6.55	6.62	6.77	6.70
15	Mohawk	NY	3.37	1.72	1.55	6.64	6.54	6.51	6.53
16	Oneida	NY	3.04	1.69	1.35	6.08	6.12	6.25	6.19
Average			3.23	1.69	1.59	6.51	6.51	6.59	6.55
F-entries			2.34*	.89-	6.69**	2.93**	3.28**	2.24*	
LSD (P=.05)			.26	.14	.12	.36	.33	.43	
CV (%)			6.3	6.7	5.8	4.3	4.0	5.1	

Lattice Efficiency 120% 149%

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1985 Extra Entry Alfalfa Trial
 Location: Snyder Field #21, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/9	7/21	9/5	1986 Season Total
1	LL 3409	LOL	3.86	2.27	2.42	8.54
2	C/W 315	C/W	3.77	2.34	2.48	8.58
3	C/W 341	C/W	3.81	2.19	2.44	8.44
4	DS 533	DS	3.79	2.30	2.43	8.51
5	DS 534	DS	3.62	2.00	2.49	8.11
6	DS 551	DS	3.88	2.23	2.40	8.51
7	DS 552	DS	3.95	2.32	2.53	8.80
8	NY 8510	NY	3.52	2.15	2.37	8.04
9	O-5 X 170(X + R)T (RPM)	NY	3.53	2.24	2.20	7.97
10	R ₃ -R ₃ (Syn. 2)	NY	4.02	2.25	2.48	8.75
11	Saranac AR - P _A R ₃ (Syn. 2)	NY	3.65	2.29	2.56	8.50
12	<u>M. falcata</u> X <u>M. caerulea</u> (RPM)	NY	2.12	.98	.89	3.98
13	6x = 48 (RPM)	NY	3.20	1.83	2.02	7.05
14	6x < 48 (RPM)	NY	2.95	1.57	1.95	6.47
15	Oneida	NY	3.61	2.07	2.18	7.87
16	Saranac AR	NY	3.56	2.06	2.31	7.93
17	O-1 X 163 + Recip.	NY	3.20	1.73	1.78	6.71
18	198 X 168 + Recip.	NY	3.00	1.90	2.07	6.96
	Average		3.50	2.04	2.22	7.76
	F-entries		13.27**	16.00**	25.92**	27.17**
	LSD (P=.05)		.36	.24	.22	.64
	CV (%)		8.2	9.4	7.9	6.6

RED CLOVER
and
BIRDSFOOT TREFOIL
STRAIN TRIALS IN WISCONSIN, 1986

by

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U.S. Dairy Forage Research Center
Madison, Wisconsin

in cooperation with

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Wisconsin Agricultural Experiment Station

Seed Sources for Red Clover Strains Grown
in Wisconsin in 1983, 1984, 1985, and 1986

Strain	Seed Source
Lakeland	Certified
Arlington	Breeders (Wisconsin)
Kenstar	Kentucky Agr. Exp. Sta.
WHC 27 (C729)	Wisconsin Synthetic (Syn 2)
WHC 28 (C737)	Wisconsin Synthetic (Syn 2)
WHC 29 (C827)	Wisconsin Synthetic (Syn 2)
WHC 30 (C813)	Wisconsin Synthetic (Syn 2)
WHC 31 (C826)	Wisconsin Synthetic (Syn 3)
WHC 38	Wisconsin Synthetic (Syn 2)
WHC 40 (C765)	Wisconsin Synthetic (Syn 3)
WHC 41 (C766)	Wisconsin Synthetic (Syn 3)
WHC 42 (C865)	Wisconsin Synthetic (Syn 3)
WHC 43 (C866)	Wisconsin Synthetic (Syn 3)
C765	Wisconsin Synthetic (Syn 2)
C766	Wisconsin Synthetic (Syn 2)
Redland II	AgriPro
Flare	AgriPro
Mor Red (7801)	AgriPro
7802	AgriPro
310	AgriPro
Redman	Farmers Forage Research
Reddy (FFR 1004)	Farmers Forage Research
Syn N	Farmers Forage Research
Syn V	Farmers Forage Research
Redmor	Hoffman Seeds
Florex	Northrup-King Seed Co.
78023	Northrup-King Seed Co.
78042	Northrup-King Seed Co.
78044	Northrup-King Seed Co.
Atlas (78045)	Northrup-King Seed Co.
78122	Northrup-King Seed Co.
W-111	Northrup-King Seed Co.
YKYC	Northrup-King Seed Co.
W-116	Northrup-King Seed Co.
Prosper I	Pride Seed Co.
Tristan	Stanford Seed
Ruby	Dairyland Seed
Starglo	Beachly Hardy Seed Co.

Summary: The 1986 growing season was somewhat abnormal in that it was dry in May and June followed by above normal precipitation in July and August. This additional moisture provided for excellent regrowth after second harvest at Arlington, therefore, a third harvest was taken early in September. Average second and third cut dry matter yields were approximately 1 ton per acre. Most material had good to excellent stand in October, 1986.

Table 1. Performance of 1983 SEEDED Red Clover Varieties Arlington Experiment Station (Exp 8301)*

Strain	Yield**					Flowering (%)		NA ***		% Stand	
	1984	1985	1986	Total	% Arl	6-84	6-85	6-84	6-85	10-85	10-86
Redland II	4.02	2.95	2.63	9.60	109	19	48	2.8	3.9	79	50
Flare	3.92	2.86	2.31	9.09	103	18	40	3.4	4.0	76	54
Mor Red	4.16	2.59	2.23	8.98	102	8	18	2.0	3.6	75	55
7802	3.85	2.88	2.15	8.88	101	18	35	2.2	3.8	69	50
310	4.00	2.78	2.23	9.01	102	15	38	2.2	3.9	68	35
78023	3.95	3.00	2.70	9.65	110	16	43	2.4	3.6	83	64
78042	3.77	3.22	2.87	9.86	112	14	25	2.0	3.3	79	61
78044	4.33	3.03	2.60	9.96	113	1	6	1.4	3.3	80	54
Atlas	4.20	3.00	2.79	9.99	113	15	20	2.4	2.5	80	58
78122	4.10	3.04	2.75	9.89	112	8	24	2.4	2.8	75	58
Ruby	3.97	2.66	2.57	9.20	104	9	26	2.8	3.9	76	53
Redman	3.87	2.99	2.29	9.15	104	11	40	2.1	3.6	63	55
Arlington	3.81	2.78	2.22	8.81	100	8	21	1.5	2.8	70	51
Mean	4.00	2.91	2.49	9.39	107	12	30	2.3	3.5	75	54
LSD (5%)	ns	0.27	0.34	0.83	---	4	9	0.5	0.7	ns	11
CV (%)	12.6	6.6	9.6	6.2	---	25	20	14	14	8	14

*Location: Madison, WI
 Soil: Parr Silt Loam
 Seeding Method: Drilled 11.2 cm rows
 Seeded: May, 1983

Design: RCB w/4 reps
 Cuts: 2 in 1984, 3 in 1985,
 3 in 1986
 Plot Size: 0.9 x 7.6 m

**Tons Dry Matter Per Acre

***NA = Northern Anthracnose: 1 = no symptoms, 5 = severe symptoms, over 90% of plants with symptoms.

Table 2. Performance of 1984 SEEDED Red Clover Varieties at Arlington Experiment Station. (Exp 8401)*

Strain	Yield**				Flowering(%) 6-86	NA*** 6-86	% Stand		NDF+ 1985	ADF+ 1985
	1985	1986	85-86 %	Arl.			10-85	10-86		
Arlington	4.84	3.83	8.67	100	40	3.0	78	64	39.6	27.1
Redman	4.70	3.53	8.23	95	40	4.0	76	65	41.9	25.0
Ruby	4.84	3.78	8.62	99	53	2.8	80	64	42.2	27.7
Florex	4.73	3.42	8.15	94	15	2.3	69	50	41.2	25.1
Prosper I	4.59	3.58	8.17	94	45	2.5	73	43	40.4	25.0
Mor Red	4.78	3.83	8.61	99	35	3.0	81	61	39.8	24.6
7802	5.04	3.85	8.89	103	55	3.3	74	61	---	---
Kenstar	4.67	3.64	8.31	96	45	5.0	84	70	43.2	26.6
WHC27 (WI-3)	4.41	3.51	7.92	91	25	4.0	84	60	40.9	25.5
WHC28 (WI-4)	4.96	4.66	9.62	111	15	2.5	81	76	40.6	25.8
WHC29 (WI-5)	5.08	4.66	9.74	112	50	2.3	86	81	40.4	25.2
WHC30 (WI-6)	5.19	4.08	9.27	107	45	1.3	78	50	40.3	26.5
Reddy	5.19	4.64	9.83	113	40	3.5	84	74	40.0	26.8
Redland II	4.80	4.18	8.98	104	20	3.5	76	63	41.6	25.5
310	4.84	4.56	9.40	108	20	2.8	76	65	---	---
Starglo	5.03	4.10	9.13	105	25	4.3	78	64	43.2	28.8
Syn N	4.84	4.04	8.88	102	25	4.3	75	63	---	---
Tristan	5.03	4.03	9.06	104	60	3.3	76	68	---	---
Red Mor	4.88	4.15	9.03	104	25	3.8	79	74	42.6	26.9
YKYC	4.92	4.39	9.31	107	8	3.8	84	76	---	---
W-111	5.20	4.44	9.64	111	30	3.8	83	81	---	---
Mean	4.88	4.07	8.97	---	33	3.1	79	65	41.2	26.1
LSD (5%)	0.36	0.51	0.72	---	12	0.8	8	14	ns	ns
CV (%)	5.2	8.9	5.7	---	18	18.3	7	16	---	---

* Location: Madison, WI
 Soil: Parr Silt Loam
 Seeding Method: Drilled 11.2 cm rows
 Seeded: May, 1984

Design: RCB w/4 reps
 Cuts: 3
 Plot Size: 0.9 x 7.5 m

** Tons Dry Matter Per Acre

*** NA = Northern Anthracnose: 1=no symptoms, 5=severe symptoms,
 over 90% of plants with symptoms.

+ As determined by Lab Analysis

Table 3. Performance of 1985 SEEDED Red Clover Varieties
Arlington Experiment Station (Exp 8501)*

Strain	Yield** 1986 % Arlington		Flowering 6-86 (%)	NA*** 6-86	% Stand 10-86
Arlington	4.32	100	29	2.0	95
WHC 38	4.41	102	25	2.5	95
WHC 40	4.53	105	23	2.0	96
WHC 41	4.49	104	28	3.0	96
WHC 42	4.54	105	20	2.0	95
WHC 43	4.56	106	30	2.5	96
Kenstar	4.15	96	45	5.0	93
Starglo	4.03	93	48	4.5	95
NAPB 310	4.16	96	45	3.5	94
W-116	4.39	102	35	2.0	95
Reddy	4.50	104	28	4.5	93
SYN V	4.54	105	35	3.0	94
WHC 27(WI-3)	3.90	90	10	4.5	93
WHC 28(WI-4)	4.64	107	15	2.5	96
WHC 29(WI-5)	4.37	101	23	2.5	95
WHC 30(WI-6)	4.99	116	28	2.0	96
WHC 31	4.55	105	20	3.0	94
Ruby	4.28	99	40	3.5	96
Mor Red	4.38	101	23	3.5	93
Redland II	4.07	94	50	4.5	94
Lakeland	4.19	97	18	3.5	90
Redman	4.33	100	20	2.5	93
Prosper I	4.27	99	35	2.5	96
Mean	4.37	---	29	3.1	94
LSD (5%)	0.47	---	10	1.3	4
CV (%)	7.70	---	16	20.1	3

* Location: Madison, WI
Soil: Parr Silt Loam
Seeding Method: Drilled 11.2 cm rows
Seeded: May, 1985
Design: RCB w/4 reps
Cuts: 3
Plot Size: 0.9 x 7.5 m

** Tons Dry Matter Per Acre

*** NA = Northern Anthracnose: 1 = no symp
5 = severe symptoms, over 90% of
plants with symptoms.

Table 4. Performance of 1984 SEEDED Red Clover Varieties Marshfield Experiment Station (Exp 8402)*

Strain	Yield**						%Arl	Percent Stand 10-85	Stand 10-86
	1985		1986		Total				
	wo/grass	w/grass	wo/grass	w/grass	wo/grass	w/grass			
Arlington	2.83	3.00	3.16	3.24	5.99	6.24	100	73	67
Redman	2.58	3.13	3.02	2.81	5.60	5.94	93	53	37
Ruby	2.85	3.17	3.17	3.33	6.02	6.50	101	67	62
Florex	3.06	3.41	2.94	2.82	6.00	6.23	100	73	50
Prosper I	3.03	3.27	3.32	3.08	6.35	6.35	106	80	53
Mor Red	2.67	3.45	3.27	3.06	5.94	6.51	99	70	57
7802	2.99	3.37	3.39	2.94	6.38	6.31	107	67	52
Kenstar	2.37	3.15	2.83	3.37	5.20	6.52	87	40	37
WHC27(WI-3)	2.62	3.07	3.11	3.43	5.73	6.50	96	70	68
WHC28(WI-4)	3.01	2.97	3.28	3.49	6.29	6.46	105	87	73
WHC29(WI-5)	3.03	3.20	3.51	3.47	6.54	6.67	109	85	80
WHC30(WI-6)	2.83	3.17	3.39	3.42	6.22	6.59	104	77	57
C765	2.79	3.08	3.28	3.04	6.07	6.12	101	83	65
C766	2.71	3.07	2.88	2.90	5.59	5.97	93	80	58
HC38	3.11	3.14	3.10	3.59	6.21	6.73	104	90	72
Reddy	2.84	3.24	2.99	3.01	5.83	6.25	97	67	40
Mean	2.83	3.18	3.17	3.19	6.00	6.63	100	73	58
LSD (%)	0.35	0.49	0.46	0.90	0.66	1.14	---	13	22
CV (%)	7.4	7.3	8.8	13.5	6.6	8.6	---	11	23

*Location: Marshfield, WI
 Soil: Spenser Silt Loam
 Seeding Method: Drilled 11.2 cm rows
 Seeded: May, 1984

Design: RCB w/5 reps (reps 4 and 5 with
 Red Clover and Timothy - 'Climax')
 Cuts: 2 in 1985, 3 in 1986
 Plot Size: 0.9 x 7.6 m

**Tons Dry Matter Per Acre

1984 Extra Entry Alfalfa Trial
Location: McGowan Field #12, Ithaca, NY 1986 Data
(Yield - Tons/Acre @ 12% M)

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

Note: Verticillium wilt symptoms prevalent in 1986 - especially Harvest 3.

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1985 Extra Entry Alfalfa Trial
 Location: Snyder Field #21, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/9	7/21	9/5	1986 Season Total
1	LL 3409	LOL	3.86	2.27	2.42	8.54
2	C/W 315	C/W	3.77	2.34	2.48	8.58
3	C/W 341	C/W	3.81	2.19	2.44	8.44
4	DS 533	DS	3.79	2.30	2.43	8.51
5	DS 534	DS	3.62	2.00	2.49	8.11
6	DS 551	DS	3.88	2.23	2.40	8.51
7	DS 552	DS	3.95	2.32	2.53	8.80
8	NY 8510	NY	3.52	2.15	2.37	8.04
9	O-5 X 170(X + R)T (RPM)	NY	3.53	2.24	2.20	7.97
10	R ₃ -R ₃ (Syn. 2)	NY	4.02	2.25	2.48	8.75
11	Saranac AR - P _A R ₃ (Syn. 2)	NY	3.65	2.29	2.56	8.50
12	<u>M. falcata</u> X <u>M. caerulea</u> (RPM)	NY	2.12	.98	.89	3.98
13	6x = 48 (RPM)	NY	3.20	1.83	2.02	7.05
14	6x < 48 (RPM)	NY	2.95	1.57	1.95	6.47
15	Oneida	NY	3.61	2.07	2.18	7.87
16	Saranac AR	NY	3.56	2.06	2.31	7.93
17	O-1 X 163 + Recip.	NY	3.20	1.73	1.78	6.71
18	198 X 168 + Recip.	NY	3.00	1.90	2.07	6.96
	Average		3.50	2.04	2.22	7.76
	F-entries		13.27**	16.00**	25.92**	27.17**
	LSD (P=.05)		.36	.24	.22	.64
	CV (%)		8.2	9.4	7.9	6.6

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1984 NE Regional Red Clover Trial
Location: Landisville, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/3 (Total Season)	1985 Season Total
1	Redland II	NAPB	1.56	3.79
2	Mor-Red	NAPB	1.16	3.24
3	NAPB 7802	NAPB	1.66	3.60
4	NAPB 310	NAPB	1.57	3.68
5	Starglo	BH	1.81	3.92
6	Kenstar	KY	1.86	4.27
7	WI 3	WI	.97	2.78
8	WI 4	WI	1.63	3.02
9	WI 5	WI	1.46	3.17
10	WI 6	WI	1.29	3.47
11	Arlington	WI	1.35	3.10
12	Reddy	FFR	1.72	3.80
13	Syn N	FFR	1.59	3.99
14	Tristan	NK	1.33	3.40
15	Redmor	NK	1.21	3.54
16	YKYC	NK	1.81	3.85
17	W-111	NK	1.65	3.62
	Average		1.51	3.54
	F-entries		7.54**	5.77**
	LSD (P=.05)		.26	.46
	CV (%)		12.3	9.2

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1985 NE Regional Red Clover Trial
Location: Helfer Field #2, Ithaca, NY 1986 Data
(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/3	7/15	8/26	1986 Season
						Total
1	Arlington	WI	2.40	1.09	1.34	4.83
2	WHC 38	WI	2.69	1.14	1.49	5.32
3	WHC 40	WI	2.69	1.13	1.51	5.33
4	WHC 41	WI	2.67	1.19	1.60	5.46
5	WHC 42	WI	2.72	1.20	1.56	5.48
6	WHC 43	WI	3.09	1.32	1.55	5.95
7	Kenstar	KY	2.85	1.39	1.54	5.78
8	Starglo	B.H.	3.13	1.41	1.64	6.17
9	NAPB 310	Agripro	3.10	1.27	1.54	5.91
10	W-116	NK	2.87	1.28	1.64	5.79
11	Reddy	FFR	3.28	1.44	1.53	6.24
12	Syn. V	FFR	2.49	1.21	1.41	5.11
	Average		2.83	1.25	1.53	5.61
	F-entries		2.11*	4.88**	1.24-	2.58*
	LSD (P=.05)		.54	.15	.22	.77
	CV (%)		13.2	8.3	10.2	9.6

Note: Poor establishment in some plots in seeding year resulted in stand differences - likely influencing yield differences.

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1985 NE Regional Red Clover Trial
 Location: Chazy, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand.						1986
No.	Entry	Source	6/12	7/23	9/4	Season Total
1	Arlington	WI	2.69	1.48	.87	5.04
2	WHC 38	WI	2.66	1.30	.81	4.78
3	WHC 40	WI	2.59	1.26	.82	4.67
4	WHC 41	WI	2.48	1.21	.81	4.49
5	WHC 42	WI	2.09	1.04	.80	3.93
6	WHC 43	WI	2.40	1.25	.77	4.42
7	Kenstar	KY	2.69	1.43	.68	4.80
8	Starglo	B.H.	2.01	1.37	.80	4.19
9	NAPB 310	Agripro	2.61	1.48	.88	4.97
10	W-116	NK	2.20	1.24	.79	4.23
11	Reddy	FFR	2.29	1.29	.77	4.35
12	Syn. V	FFR	2.14	1.25	.79	4.18
	Average		2.40	1.30	.80	4.51
	F-entries		1.05-	2.40*	.91-	1.15-
	LSD (P=.05)		.71	.23	.15	.93
	CV (%)		20.4	12.4	13.3	14.4

Note: Forage was sopping wet on Harvest 1 - caused some harvesting problems
 - note large CV.

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1985 NE Regional Red Clover Trial
 Location: Rock Springs, PA 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/9	7/22	9/16	1986 Season Total
1	Arlington	WI	2.38	1.74	.72	4.84
2	WHC 38	WI	2.26	1.31	.42	4.00
3	WHC 40	WI	2.30	1.34	.70	4.34
4	WHC 41	WI	2.33	1.35	.86	4.54
5	WHC 42	WI	2.60	1.37	.93	4.89
6	WHC 43	WI	2.45	1.41	.77	4.63
7	Kenstar	KY	1.75	1.32	.83	3.90
8	Starglo	B.H.	2.33	1.36	.80	4.50
9	NAPB 310	Agripro	1.95	1.48	.92	4.34
10	W-116	NK	2.41	1.68	.70	4.79
11	Reddy	FFR	2.21	1.40	.97	4.59
12	Syn. V	FFR	2.48	1.46	.86	4.81
	Average		2.29	1.43	.79	4.51
	F-entries		3.02**	5.93**	4.61**	4.34**
	LSD (P=.05)		.39	.16	.20	.44
	CV (%)		11.7	7.9	17.4	6.8

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1985 NE Regional Red Clover Trial
Location: Landisville, PA 1986 Data

(Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/3	7/15	1986 Season
					Total
1	Arlington	WI	1.36	.93	2.29
2	WHC 38	WI	1.51	.87	2.39
3	WHC 40	WI	1.34	.82	2.16
4	WHC 41	WI	1.26	.90	2.16
5	WHC 42	WI	1.17	.65	1.82
6	WHC 43	WI	.99	.83	1.82
7	Kenstar	KY	1.73	1.22	2.95
8	Starglo	B.H.	1.51	1.11	2.62
9	NAPB 310	Agripro	1.69	1.09	2.78
10	W-116	NK	1.30	.95	2.25
11	Reddy	FFR	1.84	1.15	2.99
12	Syn. V	FFR	1.88	1.22	3.10
	Average		1.47	.98	2.45
	F-entries		3.36**	4.09**	4.06**
	LSD (P=.05)		.44	.25	.63
	CV (%)		20.7	17.9	17.8

Seed Sources for Birdsfoot Trefoil Strains Grown
in Wisconsin in 1983, 1984, 1985, and 1986

Strain	Seed Source
Viking	New York Experiment Station
Empire	New York Experiment Station
Norcen	North Central States Exp. Sta.
Carroll	Peterson Seed Company
Dawn	Missouri Experiment Station
Leo	Canada Department of Agriculture
Maitland	Canada Department of Agriculture
Mirabel	Canada Department of Agriculture
Cree	Canada Department of Agriculture
Mackinaw	Soil Conservation Service, Mich.
Odenwalder	West Germany
Fergus (KyEcotype)	Kentucky Experiment Station
WIT-1	Wisconsin Synthetic (Syn 1)
WIT-2	Wisconsin Synthetic (Syn 2)

Table 5. Performance of 1983 SEEDED Birdsfoot Trefoil Varieties Arlington Experiment Station (Exp 8305)*

Variety	Yield**					Flowering (%)		Stand (%)	
	1983	1984	1985	1986	84-85-86 Avg.	6-84	6-86	10-85	10-86
Viking	1.36	3.44	3.86	3.92	3.74	52	53	74	60
Norcen	1.63	2.88	3.73	3.64	3.42	15	5	55	45
Carroll	1.59	3.79	3.34	3.71	3.61	9	9	48	33
Dawn	1.50	2.92	3.68	3.40	3.33	20	18	52	45
Leo	1.53	3.27	3.44	3.82	3.51	13	8	49	28
Maitland	1.36	3.25	3.76	4.45	3.82	59	50	66	59
Mackinaw	1.54	2.61	3.68	3.08	3.12	5	4	48	30
Odenwalder	1.21	2.98	3.56	4.08	3.54	55	35	68	53
Empire	1.48	2.93	3.95	3.43	3.44	8	9	45	35
Mirabel	1.50	3.28	3.56	3.98	3.61	15	10	56	43
Cree	1.55	2.68	3.79	3.63	3.37	19	14	52	28
Mean	1.48	3.09	3.67	3.74	3.50	24	19	56	42
LSD (5%)	0.20	0.37	0.30	0.41	----	5	4.49	11	14.8
CV (%)	9.5	8.4	5.8	7.6	----	20	16	13	25

* Location: Madison, WI
 Soil: Parr Silt Loam
 Seeding Method: Drilled 11.2 cm rows

Design: RCB w/4 reps
 Cuts: 1983 (1), 1984 (2), 1985 (3), 1986 (2)
 Plot Size: 0.9 x 7.6 m

** Tons Dry Matter Per Acre

Table 6. Performance of 1984 SEEDED Birdsfoot Trefoil Varieties
Arlington Experiment Station (Exp 8405)*

Strain	Yield**			% Stand		% Bloom
	1985	1986	85-86 Avg.	10-85	10-86	6-86
Norcen	4.50	3.59	4.05	71	45	5
Viking	4.78	4.09	4.44	73	69	50
Leo	4.25	3.64	3.95	69	40	8
Dawn	4.55	3.32	3.94	64	53	23
Maitland	4.84	4.06	4.45	71	58	50
Carroll	4.42	3.65	4.04	69	34	8
Mackinaw	4.66	3.19	3.93	64	45	6
Cree	4.61	3.49	4.05	75	38	10
Empire	4.55	3.76	4.16	69	40	9
Odenwalder	4.07	4.02	4.05	73	65	35
Mean	4.52	3.68	4.10	70	49	20
LSD (5%)	ns	0.5	---	12.4	13.6	4.4
CV (%)	8.3	9.4	---	12.2	19.6	15

*Location: Madison, WI
Soil Type: Parr Silt Loam
Seeding Method: Drilled 11.2 cm rows
Seeded: May, 1984

Design: RCB w/4 reps
Cuts: 1985 (3), 1986 (2)
Plot Size: 0.9 x 7.6 m

**Tons Dry Matter Per Acre

Table 7. Performance of 1985 SEEDED Birdsfoot Trefoil Varieties
Arlington Experiment Station (Exp 8505)*

Strain	<u>Yield**</u> 1986	<u>% Stand</u> 10-86	<u>% Bloom</u> 6-86
Norcen	3.66	85	5
Viking	3.58	91	50
Leo	3.78	84	4
Maitland	3.55	86	50
Carroll	3.67	83	6
Cree	3.42	81	20
WIT-1	3.84	88	15
WIT-2	3.88	91	10
Odenwalder	3.39	90	35
Empire	3.61	76	9
Mean	3.64	86	20
LSD (5%)	0.48	5.57	3.16
CV (%)	9.2	4.5	10.7

*Location: Madison, WI Design: RCB w/4 reps
 Soil Type: Parr Silt Loam Cuts: 2
 Seeding Method: Drilled 11.2 cm row Plot Size: 0.9 x 7.6 m
 Seeded: May, 1985

**Tons Dry Matter Per Acre

Table 8. Performance of 1984 SEEDED Birdsfoot Trefoil Varieties
Marshfield Experiment Station (Exp 8403)*

Strain	1985 Yield **		1986 Yield **	Avg. Yield**	% Stand
	wo/grass	w/grass			
Norcen	2.55	2.43	3.22	2.83	58
Viking	2.09	2.05	2.95	2.50	26
Leo	2.50	2.51	3.04	2.78	74
Dawn	1.87	2.01	2.76	2.39	30
Maitland	2.29	2.23	3.01	2.62	38
Carroll	2.61	2.46	3.14	2.80	70
Mackinaw	1.83	1.96	2.96	2.46	28
Cree	2.16	2.12	2.80	2.46	35
Empire	2.24	2.34	3.20	2.77	41
Odenwalder	1.77	1.99	3.25	2.62	29
Mean	2.19	2.21	3.02	2.62	43
LSD (5%)	0.46	0.24	0.4	----	15
CV (%)	12.2	4.9	6.4	----	27

*Location: Marshfield, WI
Soil Type: Spencer Silt Loam
Seeding Method: Drilled 11.2 cm rows
Seeded: May, 1984

Design: RCB w/5 reps (reps 4 and 5 seeded
with Timothy - 'Climax')
Cuts: 2 in 1985, 3 in 1986
Plot Size: 0.9 x 7.6 m

**Tons Dry Matter Per Acre

Table 9. Performance of 1984 SEEDED Birdsfoot Trefoil Varieties
Ashland Experiment Station (Exp 8406)*

Strain	1985 Yield**		1986 Yield**		Avg. Yield**	
	wo/grass	w/grass	wo/grass	w/grass	wo/grass	w/grass
Norcen	3.43	3.19	2.94	3.48	3.19	3.34
Viking	3.09	3.26	2.90	3.24	3.00	3.25
Leo	3.33	2.94	3.18	3.17	3.26	3.06
Dawn	3.16	3.85	2.88	3.21	3.02	3.53
Maitland	3.10	3.28	3.06	3.28	3.08	3.28
Carroll	3.01	3.39	2.79	3.56	2.90	3.48
Mackinaw	2.80	3.43	2.80	2.84	2.80	3.14
Cree	2.98	3.15	2.99	2.86	2.99	3.01
Empire	3.20	3.29	2.82	2.95	3.01	3.12
Odenwalder	2.55	2.83	2.52	3.13	2.54	2.98
Mean	3.07	3.26	2.89	3.17	2.98	3.22
LSD (5%)	ns	ns	0.59	0.45	----	----
CV (%)	8.7	10.9	9.8	6.8	----	----

*Location: Ashland, WI
Soil Type: Ontanagon Silt Clay Loam
Seeding Method: Drilled 11.2 cm rows
Seeded: May, 1984

Design: RCB w/5 reps (reps 4 and 5 seeded
with Timothy - 'Climax')
Cuts: 2 in 1985, and 2 in 1986
Plot Size: 0.9 x 7.5 m

**Tons Dry Matter Per Acre

1984 Late Orchardgrass Variety Trial
Location: Rock Springs, PA 1986 Data. Authors[‡]
Forage yield in tons dry matter/acre

Rand No.	Entry	Source [†]	Harvest Dates			1986 Season Total	1985 Season Total
			6/4	7/23	9/10		
----- Tons DMA -----							
1	Rancho	FFR Co-op	2.61	1.68	1.27	5.56	4.30
2	ISI 80-A	ISI	2.58	1.80	1.19	5.58	4.31
3	ISI 80-B	ISI	2.63	1.71	1.13	5.47	3.95
4	ISI 80-C	ISI	2.70	1.79	1.03	5.52	3.99
5	Potomac	ISI	2.36	1.73	1.18	5.27	4.13
6	Latar	ISI	2.46	1.81	1.23	5.50	4.22
7	ISI 81-1	ISI	2.50	1.68	1.11	5.29	4.08
8	Able	FFR Co-op	2.66	1.90	1.31	5.86	4.22
9	Pennlate	B.H.	2.70	1.80	1.17	5.68	4.34
10	Orion	N.K.	2.58	2.01	0.73	5.32	3.92
11	PA-AD3	PAAES	2.38	1.87	1.09	5.34	4.30
12	PA-BC2	PAAES	2.55	1.77	1.01	5.33	3.82
	Averages		2.56	1.79	1.12	5.48	4.13
	F-entries		1.25	1.17	2.02	0.68	1.22
	DLSD (K=500)		----	----	----	----	----
	CV%		8.02	9.89	19.22	7.89	7.75

[†]Identification of source of seed, which may or may not be the originator:

- 1) FFR = Farmers Forage Research Co-op; 2) PAAES = Pennsylvania Agr. Expt. Sta.;
3) ISI = International Seeds Inc.; 4) B.H. = Beachly Hardy Seed Company;
5) N.K. = Northrup King & Company

[‡]Dr. R. W. Cleveland, R. L. Oberheim

1984 Early Orchardgrass Variety Trial
Location: Rock Springs, PA 1986 Data. Authors[‡]
Forage yield in tons dry matter/acre

Rand No.	Entry	Source [†]	Harvest Dates			1986 Season Total	1985 Season Total
			6/4	7/22	9/8		
----- Tons DMA -----							
1	Dart	Land-O-Lakes	2.41	1.49	1.21	5.11	3.61
2	Hallmark	FFR Co-op	2.33	1.50	1.29	5.14	3.71
3	Crown	NAPB	2.30	1.56	1.22	5.08	3.64
4	Hawk	NAPB	2.64	1.52	1.14	4.92	3.49
5	Potomac	ISI	2.30	1.51	1.23	5.04	3.87
6	Latar	ISI	2.05	1.43	1.09	4.57	3.23
7	Frode	ISI	2.11	1.40	1.15	4.66	3.37
8	Sterling	ISI	2.13	1.46	1.20	4.79	3.46
9	Pennlate	B.H.	2.21	1.47	1.07	4.75	3.26
10	MO I	MOAES	2.32	1.39	1.05	4.76	3.34
11	MO II	MOAES	2.36	1.50	1.24	5.10	3.56
	Averages		2.28	1.47	1.17	4.90	3.50
	F-entries		1.40	0.52	1.56	2.35*	1.26
	DLSD (K=500)		----	----	----	0.4497	----
	CV%		8.54	9.91	10.67	5.41	10.18

*Significant at 0.05 level.

[†]Identifications of source of seed, which may or may not be the originator:

1) FFR = Farmers Forage Research Co-op; 2) MOAES = Missouri Agr. Expt. Sta.;

3) NAPB = North American Plant Breeders; 4) ISI = International Seeds Inc.;

5) B.H. = Beachly Hardy Seed Company

[‡]Dr. R. W. Cleveland, R. L. Oberheim

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1985 Bromegrass Variety Trial - Alone
 Location: New Ketola Field #7, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/18	8/1	1986 Season Total	Harvest 3 Regrowth [‡]
1	Barton (Kalton)	Land O'Lakes	4.31	1.63	5.95	2.5
2	Baylor (Kalton)	Oseco	3.95	1.52	5.46	2.3
3	Bravo (MLM13011)	Maple Leaf Mills	4.58	1.63	6.21	4.8
4	[†] Deborah	Seedway	3.96	1.29	5.25	9.8
5	Rebound (Ross)	South Dakota	3.87	1.58	5.45	5.2
6	Saratoga (Cert.)	Agway	3.37	1.61	4.97	4.2
7	Tempo Ottawa D-9	Charles Pickseed	3.46	1.59	5.05	3.8
8	Saratoga Breeder		4.53	1.70	6.24	5.3
9	83-8	} Single Cross	4.37	1.56	5.93	5.2
10	83-49		4.34	1.72	6.06	5.8
11	83-32	} Single Cross	4.01	1.53	5.54	3.8
12	83-53		4.33	1.52	5.85	4.3
13	83-3	} Single Cross	5.46	1.81	7.27	5.3
14	83-52		5.29	1.71	7.00	5.2
	Average		4.27	1.60	5.87	4.8
	F-entries		11.16**	2.48**	10.27**	29.88**
	LSD (P=.05)		.50	.22	.59	.9
	CV (%)		10.1	12.1	8.7	16.5

[†] Bromus carinatus Deborah

[‡] Trial clipped 9/16 - no yield taken. Variable weed infestations. Regrowth rated by 1 = least, 10 = most.

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1985 Bromegrass Variety Trial + Oneida Alfalfa
 Location: New Ketola Field #7, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry	Source	6/18	8/1	1986 Season Total
1	Barton (Kalton)	Land O'Lakes	4.11	1.75	5.86
2	Baylor (Kalton)	Oseco	3.99	1.78	5.77
3	Bravo (MLM13011)	Maple Leaf Mills	3.97	1.87	5.84
4	†Deborah	Seedway	3.42	1.73	5.14
5	Rebound (Ross)	South Dakota	3.84	1.84	5.67
6	Saratoga (Cert.)	Agway	3.77	1.61	5.38
7	Tempo Ottawa D-9	Charles Pickseed	4.05	1.80	5.85
8	Saratoga Breeder		3.64	1.72	5.37
9	83-8	} Single Cross	4.25	1.79	6.03
10	83-49		3.99	1.75	5.73
11	83-32	} Single Cross	4.02	1.90	5.93
12	83-53		4.08	1.75	5.84
13	83-3	} Single Cross	4.35	1.81	6.16
14	83-52		4.01	1.76	5.77
	Average		3.97	1.78	5.74
	F-entries		2.21*	.81-	1.94*
	LSD (P=.05)		.45	.22	.55
	CV (%)		9.9	10.7	8.4

† Bromus carinatus Deborah

Note: Trial clipped 9/16, but no yield taken: variable deer grazing, only a trace of grass.

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1985 Bromegrass Polycross Trial - Alone
 Location: New Ketola Field #7, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry (1983 Clone No.)	Origin	6/18	8/1	1986 Season Total	1986 Adj. Total	Harvest 3 Regrowth [†]	Regrowth Adj. Means
1	83-2	Saratoga	4.35	1.58	5.93	5.91	5.3	5.2
2	-3 Syn.	"	4.59	1.65	6.24	6.18	6.0	5.9
3	-5	"	4.44	1.65	6.09	5.95	5.0	4.9
4	-8 Syn.	"	4.20	1.69	5.89	6.26	6.0	5.8
5	-10 Syn.	"	4.40	1.71	6.11	6.11	5.8	5.8
6	-12	China	4.77	1.81	6.58	6.36	5.2	5.0
7	-14	"	4.89	1.71	6.60	6.42	5.8	5.7
8	-17	"	3.79	1.78	5.56	5.49	6.2	6.2
9	-18	"	4.27	1.62	5.90	5.77	5.0	5.1
10	-19	"	3.80	1.40	5.19	5.50	5.2	5.0
11	-21	"	4.33	1.77	6.10	5.96	4.8	4.8
12	-22	"	4.69	1.77	6.46	6.77	5.2	5.4
13	-27	"	4.00	1.35	5.35	5.69	5.2	5.1
14	-28	"	4.51	1.48	6.00	6.26	5.3	5.3
15	-32	"	4.51	1.95	6.45	6.49	4.8	5.0
16	-40 Syn.	Regro-SD	4.25	1.73	5.98	6.21	5.2	5.2
17	-42 Syn.	"	4.60	1.72	6.32	6.25	5.2	5.4
18	-46 Syn.	"	4.12	1.71	5.84	5.65	5.2	5.4
19	-47 Syn.	"	4.28	1.70	5.99	6.09	6.0	5.9
20	-49	"	4.42	1.67	6.09	6.04	5.3	5.5
21	-52	Bromex-NK	4.89	1.61	6.50	6.73	5.0	4.9
22	-53	"	4.90	1.64	6.54	6.04	4.2	4.4
23	Saratoga (Cert.)		3.53	1.64	5.17	5.10	5.0	5.2
24	Barton	LOL (Kalton)	4.46	1.75	6.22	6.01	2.7	2.4
25	Rebound	SD (Ross)	4.49	1.58	6.07	5.96	4.7	5.0
	Average		4.38	1.67	6.05	6.05	5.2	5.2
	F-entries		1.63*	1.99**	1.70*	2.85**	5.3**	7.2**
	LSD (P=.05)		.76	.25	.86	.64	.9	.7
	CV (%)		15.2	13.2	12.4	9.2	14.5	12.5
	Lattice Efficiency					197%		144%

[†] Trial clipped 9/16 - no yield taken. Variable weed infestations. Regrowth rated by 1 = least, 10 = most.

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1985 Bromegrass Polycross Trial + Oneida Alfalfa
 Location: New Ketola Field #7, Ithaca, NY 1986 Data
 (Yield - Tons/Acre @ 12% M)

Rand. No.	Entry (1983 Clone No.)	Origin	6/18	8/1	1986 Season Total	1986 Adj. Total
1	83-2	Saratoga	4.14	1.69	5.83	5.38
2	-3 Syn.	"	4.06	1.65	5.70	5.75
3	-5	"	4.10	1.80	5.90	5.80
4	-8 Syn.	"	4.61	1.73	6.34	5.85
5	-10 Syn.	"	3.75	1.60	5.35	5.46
6	-12	China	4.06	1.59	5.65	5.70
7	-14	"	3.94	1.86	5.80	5.96
8	-17	"	4.02	1.67	5.70	5.56
9	-18	"	3.87	1.76	5.64	5.36
10	-19	"	4.13	1.76	5.90	5.77
11	-21	"	4.26	1.80	6.06	5.82
12	-22	"	3.80	1.71	5.51	5.73
13	-27	"	3.99	1.81	5.81	5.81
14	-28	"	4.34	1.64	5.98	5.64
15	-32	"	3.60	1.80	5.40	6.00
16	-40 Syn.	Regro-SD	4.10	1.68	5.78	5.83
17	-42 Syn.	"	3.87	1.64	5.51	5.61
18	-46 Syn.	"	3.73	1.76	5.48	5.89
19	-47 Syn.	"	4.03	1.64	5.67	5.66
20	-49	"	3.94	1.76	5.70	5.77
21	-52	Bromex-NK	4.48	1.78	6.27	6.12
22	-53	"	3.79	1.80	5.58	5.90
23	Saratoga (Cert.)		3.95	1.80	5.75	5.73
24	Barton	LOL (Kalton)	4.09	1.86	5.95	6.06
25	Rebound	SD (Ross)	3.51	1.73	5.24	5.33
	Average		4.01	1.73	5.74	5.74
	F-entries		.78-	.83-	.85-	2.23**
	LSD (P=.05)		.80	.24	.80	.39
	CV (%)		17.5	12.2	12.2	6.0
		Lattice Efficiency				455%

Note: Trial clipped 9/16 - no yield taken: variable deer damage, only a trace of grass.

